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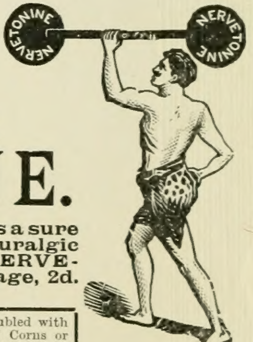

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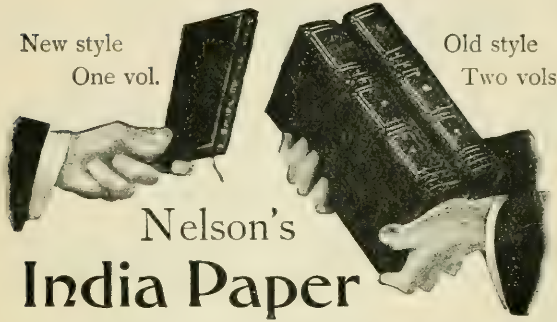
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FACULTY HALL,
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| *Practical Physiology* | as may be arranged. |
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## AUGUST 1902.

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| 1 | F | |
| 2 | S | |
| 3 | 𝕾 | |
| 4 | M | |
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| 11 | M | |
| 12 | Tu | |
| 13 | W | |
| 14 | Th | |
| 15 | F | Names of Candidates for Highland Society's Bursaries to be given in as directed on p. 358. |
| 16 | S | |
| 17 | 𝕾 | |
| 18 | M | |
| 19 | Tu | |
| 20 | W | |
| 21 | Th | |
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| 31 | 𝕾 | |

## SEPTEMBER 1902.

| | | |
|---|---|---|
| 1 | M | Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, for James Laing Bursaries, for M'Crie Bursaries, for Marshall Trust Bursaries, for Pratt Bursaries, for William Whyte Bursary, and for Hannay Bursary to be given in as directed at p. 358. Names of Candidates for Ferguson Scholarships to be given in before this day. |
| 2 | Tu | |
| 3 | W | |
| 4 | Th | |
| 5 | F | |
| 6 | S | |
| 7 | 𝕾 | |
| 8 | M | Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, and Names of Competitors for Bursaries, to be given in to Assistant-Clerk (Matriculation Office). |
| 9 | Tu | |
| 10 | W | |
| 11 | Th | Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office). |
| 12 | F | |
| 13 | S | |
| 14 | 𝕾 | |
| 15 | M | |
| 16 | Tu | |
| 17 | W | Names of Candidates for Degrees in Arts and Law, and for Scholarships, etc., to be given in to Assistant-Clerk (Matriculation Office). |
| 18 | Th | |
| 19 | F | |
| 20 | S | |
| 21 | 𝕾 | |
| 22 | M | |
| 23 | Tu | |
| 24 | W | |
| 25 | Th | |
| 26 | F | Preliminary and Bursary Examinations begin. (See pp. 172, 357.)<br>Degree Examinations—Education, Medicine. |
| 27 | S | Degree Examinations—Education, Mathematics, Astronomy, Geology. |
| 28 | 𝕾 | |
| 29 | M | Degree Examinations—Zoology, Botany, Chemistry, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law.<br>Competition for Lorimer Bursaries in Medicine. (Continued on 30th.) |
| 30 | Tu | Degree Examinations—Moral Philosophy, English Literature, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law. |

## OCTOBER 1902.

| | | |
|---|---|---|
| 1 | W | Theses for M.D. given in. Names of Candidates for Examination for M.D. to be given in.<br>Degree Examinations—Logic, English Literature, Political Economy, Medical Jurisprudence and Public Health, Pathology, Engineering, Philosophy of Law, International Private Law. |
| 2 | Th | Degree Examinations—History, Engineering, Conveyancing, Medical Jurisprudence.<br>Preliminary Examinations end.<br>Additional Examinations in German and French for Bursaries.<br>Meeting of University Court. Appointment of Preliminary Examiners and Members of Joint Board for next year. Appointment of Committees and of Representatives at Charitable and other Boards. |
| 3 | F | Degree Examinations in Mathematics, etc. (See pp. 194, 207.)<br>Additional Examinations in Mathematics, Latin, and Greek for Bursaries. |
| 4 | S | Additional Examination in English and Dynamics for Bursaries.<br>Examination for Arnott Prizes at 2 P.M. |
| 5 | 𝔖 | |
| 6 | M | |
| 7 | Tu | |
| 8 | W | |
| 9 | Th | Meeting of Senate—Election of Senate Members of Library and other Committees.<br>Meeting of Classical and Modern Languages Committees of Joint Board. |
| 10 | F | Meeting of Joint Board. |
| 11 | S | Meeting of Joint Board. |
| 12 | 𝔖 | |
| 13 | M | |

## OCTOBER 1902.

| | | |
|---|---|---|
| 14 | Tu | |
| 15 | W | Matriculation begins.<br>Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to Assistant-Clerk (Matriculation Office). |
| 16 | Th | Results of Bursary Competition declared.<br>Opening of Winter Session. |
| 17 | F | |
| 18 | S | |
| 19 | S̶ | |
| 20 | M | |
| 21 | Tu | Examinations for B.D., and for Bursaries in Theology, 1st day. (See p. 239.) |
| 22 | W | Do. do., 2nd day. |
| 23 | Th | |
| 24 | F | |
| 25 | S | Election of Rector. |
| 26 | S̶ | |
| 27 | M | |
| 28 | Tu | |
| 29 | W | (Last Wednesday.) Meeting of General Council. |
| 30 | Th | |
| 31 | F | Applications for admission as Research Students to be lodged with the Clerk of Senate.<br>Last day for receiving Tradesmen's and other Accounts for preceding half-year.<br>Last day for receiving Professors' Accounts for Class Expenses for transmission to University Court.<br>Last day for giving in University Prize Essays. |

## NOVEMBER 1902.

| | | |
|---|---|---|
| 1 | S | |
| 2 | 𝔖 | |
| 3 | M | |
| 4 | Tu | |
| 5 | W | |
| 6 | Th | Meeting of Senate. Graduation. Representatives at Charitable and other Boards elected. |
| 7 | F | Matriculation ends. Close of Enrolment in Classes. |
| 8 | S | |
| 9 | 𝔖 | |
| 10 | M | |
| 11 | Tu | |
| 12 | W | |
| 13 | Th | Meeting of University Court. |
| 14 | F | |
| 15 | S | |
| 16 | 𝔖 | |
| 17 | M | |
| 18 | Tu | |
| 19 | W | |
| 20 | Th | |
| 21 | F | |

## NOVEMBER 1902.

| | | |
|---|---|---|
| 22 | S | |
| 23 | **S** | |
| 24 | M | |
| 25 | Tu | |
| 26 | W | |
| 27 | Th | |
| 28 | F | |
| 29 | S | |
| 30 | **S** | |

## DECEMBER 1902.

| | | |
|---|---|---|
| 1 | M | |
| 2 | Tu | |
| 3 | W | |
| 4 | Th | Meeting of Senate. Vacancies in Bursaries ascertained |
| 5 | F | |
| 6 | S | |
| 7 | **S** | |
| 8 | M | |
| 9 | Tu | |
| 10 | W | |
| 11 | Th | Meeting of the University Court. |
| 12 | F | |
| 13 | S | |
| 14 | **S** | |
| 15 | M | |
| 16 | Tu | |
| 17 | W | |
| 18 | Th | |
| 19 | F | |
| 20 | S | Payment of Tradesmen's and other Accounts. |
| 21 | **S** | |
| 22 | M | Christmas Holidays commence. |
| 23 | Tu | |
| 24 | W | |
| 25 | Th | |
| 26 | F | |
| 27 | S | |
| 28 | **S** | |
| 29 | M | |
| 30 | Tu | |
| 31 | W | |

## JANUARY 1903.

| | | |
|---|---|---|
| 1 | Th | |
| 2 | F | |
| 3 | S | |
| 4 | **S** | |
| 5 | M | |
| 6 | Tu | First day on which the Classes meet after the Christmas Holidays. |
| 7 | W | |
| 8 | Th | (Second Thursday.) Meeting of University Court. |
| 9 | F | |
| 10 | S | Applications for Higher Degrees in Arts and Science (D.Litt., D.Phil., and D.Sc.) to be sent in to Clerk of Senate. |
| 11 | **S** | |
| 12 | M | |
| 13 | Tu | |
| 14 | W | Last day for receiving Accounts for transmission to Court. |
| 15 | Th | Meeting of Senate. Intimation from the several Faculties of the Election of Deans. Appointment of Boards of Studies. Vacant Bursaries filled up. |
| 16 | F | |
| 17 | S | |
| 18 | **S** | |
| 19 | M | |
| 20 | Tu | |
| 21 | W | |
| 22 | Th | |
| 23 | F | |
| 24 | S | |
| 25 | **S** | |
| 26 | M | |
| 27 | Tu | |
| 28 | W | |
| 29 | Th | |
| 30 | F | |
| 31 | S | |

## FEBRUARY 1903.

| | | |
|---|---|---|
| 1 | **S** | Theses for M.D. to be sent in. |
| 2 | M | Holiday (Monday after last Friday of January). |
| 3 | Tu | Holiday (for Candlemas). |
| 4 | W | |
| 5 | Th | Meeting of Senate. Reports of Committees on Honorary Degrees. |
| 6 | F | |
| 7 | S | |
| 8 | **S** | |
| 9 | M | |
| 10 | Tu | |
| 11 | W | |
| 12 | Th | (Second Thursday.) Meeting of University Court. Arrangements for Summer Session. |
| 13 | F | |
| 14 | S | |
| 15 | **S** | |
| 16 | M | |
| 17 | Tu | |
| 18 | W | |
| 19 | Th | |
| 20 | F | |
| 21 | S | |
| 22 | **S** | |
| 23 | M | |
| 24 | Tu | |
| 25 | W | |
| 26 | Th | |
| 27 | F | |
| 28 | S | |

## MARCH 1903.

| | | |
|---|---|---|
| 1 | S | |
| 2 | M | Holiday (Monday after last Friday of February). |
| 3 | Tu | Reports on Prize Essays. |
| 4 | W | |
| 5 | Th | Meeting of Senate.<br>Schemes of Courses in Arts, Science, and Medicine to be sent by Professors and Lecturers to Conveners of Boards of Studies. |
| 6 | F | Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, to be given in to Assistant-Clerk (Matriculation Office). |
| 7 | S | |
| 8 | S | |
| 9 | M | |
| 10 | Tu | Names of Candidates for Degrees in Arts and Law to be given in to Assistant-Clerk (Matriculation Office). |
| 11 | W | |
| 12 | Th | Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).<br>Meeting of University Court. Appoint Member of Committee of West of Scotland Marine Biological Station. |
| 13 | F | |
| 14 | S | |
| 15 | S | |
| 16 | M | |
| 17 | Tu | |
| 18 | W | |
| 19 | Th | Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Appointment to International Exhibition Scholarship. |
| 20 | F | |
| 21 | S | |
| 22 | S | |
| 23 | M | |
| 24 | Tu | |
| 25 | W | |
| 26 | Th | Close of Winter Session. |
| 27 | F | Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office).<br>Preliminary Examinations in Arts, Science, and Medicine begin. (See p. 172.)<br>Degree Examination—Education, Mathematics. |
| 28 | S | Degree Examinations—Education, Mathematics, Astronomy, Geology. |
| 29 | S | |
| 30 | M | Returns from Teachers of Elocution.<br>Degree Examinations—Zoology, Botany, Chemistry, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law. |
| 31 | Tu | Degree Examinations—Moral Philosophy, English Literature, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law.<br>Last day for receiving Professors' Accounts of Class Expenses, Tradesmen's, Forty-five shilling, and other Accounts for transmission to Court. |

## APRIL 1903.

| | | |
|---|---|---|
| 1 | W | (First Wednesday.) Meeting of General Council.<br>Degree Examinations—Logic, English Literature, Political Economy, Medical Jurisprudence and Public Health, Pathology, Engineering, Philosophy of Law, International Private Law. |
| 2 | Th | Meeting of Senate.<br>Preliminary Examinations end.<br>Degree Examinations—History, Engineering, Conveyancing, Medical Jurisprudence, Divinity, Textual Criticism. |
| 3 | F | Degree Examinations—Natural Philosophy, Church History, Hermeneutics, Mercantile Law. |
| 4 | S | Degree Examinations in remaining Arts subjects begin (see p. 194). |
| 5 | 𝔖 | |
| 6 | M | Last day for returning Books to the Library. |
| 7 | Tu | |
| 8 | W | |
| 9 | Th | Meeting of University Court.<br>Meeting of Classical and Modern Languages Committees of Joint Board. |
| 10 | F | Meeting of Joint Board. |
| 11 | S | Meeting of Joint Board. |
| 12 | 𝔖 | |
| 13 | M | |
| 14 | Tu | |
| 15 | W | |
| 16 | Th | |
| 17 | F | Library re-opened. |
| 18 | S | |
| 19 | 𝔖 | |
| 20 | M | |

## APRIL 1903.

| | | |
|---|---|---|
| 21 | Tu | Graduation in all the Faculties. Honorary Graduation. Distribution of University Prizes. |
| 22 | W | Meeting of Senate.<br>Opening of Summer Session. |
| 23 | Th | |
| 24 | F | |
| 25 | S | |
| 26 | 𝔖 | |
| 27 | M | |
| 28 | Tu | |
| 29 | W | |
| 30 | Th | |

## MAY 1903.

| | | |
|---|---|---|
| 1 | F | |
| 2 | S | |
| 3 | 𝔖 | |
| 4 | M | |
| 5 | Tu | Close of Matriculation and Enrolment in Classes. |
| 6 | W | |
| 7 | Th | Meeting of University Court. |
| 8 | F | |
| 9 | S | |
| 10 | 𝔖 | |
| 11 | M | |
| 12 | Tu | |
| 13 | W | |
| 14 | Th | |
| 15 | F | |
| 16 | S | |
| 17 | 𝔖 | |
| 18 | M | |
| 19 | Tu | |
| 20 | W | Payment of Tradesmen's and other Accounts. |
| 21 | Th | |
| 22 | F | |
| 23 | S | |
| 24 | 𝔖 | |
| 25 | M | |
| 26 | Tu | |
| 27 | W | |
| 28 | Th | Names of Candidates for Final Professional Examination in Medicine to be given in to Assistant-Clerk (Matriculation Office). |
| 29 | F | |
| 30 | S | |
| 31 | 𝔖 | |

## JUNE 1903.

| | | |
|---|---|---|
| 1 | M | Theses for M.D. given in. |
| 2 | Tu | |
| 3 | W | |
| 4 | Th | |
| 5 | F | |
| 6 | S | Last day for Professors sending in names of Assistants for 1903-4 to Secretary of University Court. |
| 7 | 𝔖 | |
| 8 | M | |
| 9 | Tu | |
| 10 | W | |
| 11 | Th | Meeting of University Court. Appointment of Lecturers, and of University Assistants. |
| 12 | F | |
| 13 | S | |
| 14 | 𝔖 | |
| 15 | M | |
| 16 | Tu | |
| 17 | W | |
| 18 | Th | Degree Examinations—Practice of Medicine, Surgery. |
| 19 | F | Do. Midwifery; Clinical Examinations begin. |
| 20 | S | |
| 21 | 𝔖 | |
| 22 | M | |
| 23 | Tu | |
| 24 | W | |
| 25 | Th | |
| 26 | F | |
| 27 | S | |
| 28 | 𝔖 | |
| 29 | M | |
| 30 | Tu | |

## JULY 1903.

| | | |
|---|---|---|
| 1 | W | Last day for receiving accounts for transmission to Court. |
| 2 | Th | |
| 3 | F | |
| 4 | S | |
| 5 | 𝔖 | |
| 6 | M | |
| 7 | Tu | |
| 8 | W | |
| 9 | Th | Meeting of University Court. |
| 10 | F | |
| 11 | S | |
| 12 | 𝔖 | |
| 13 | M | |
| 14 | Tu | |
| 15 | W | |
| 16 | Th | |
| 17 | F | |
| 18 | S | |
| 19 | 𝔖 | |
| 20 | M | |
| 21 | Tu | Meeting of Senate. Graduation in Medicine. |
| 22 | W | |
| 23 | Th | |
| 24 | F | |
| 25 | S | |
| 26 | 𝔖 | |
| 27 | M | |
| 28 | Tu | |
| 29 | W | |
| 30 | Th | |
| 31 | F | |

## *UNIVERSITY OFFICERS.*

| | Elected. | Electors. |
|---|---|---|
| *Chancellor*—The Right Hon. the Earl of Stair, K.T., LL.D., - - - - | 1884 | General Council. |
| *Vice-Chancellor*—Robert Herbert Story, D.D., LL.D., - - - - - - | 1898 | Chancellor. |
| *Rector*—The Right Hon. The Earl of Rosebery, K.G., D.C.L., LL.D., F.R.S., | 1899 | Matriculated Students. |
| *Principal*-Robert Herbert Story, D.D., LL.D., | 1898 | Crown. |
| *Dean of Faculties*—The Right Hon. Lord Kelvin, G.C.V.O., - - - - | 1901 | Senate. |
| *Parliamentary Representative* — The Right Hon. James A. Campbell, LL.D., - - | 1880 | General Council. |

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### University Court.

The Rector, *ex officio*. | The Principal, *ex officio*.

The Lord Provost of Glasgow, *ex officio*.

| | Elected. | Electors. |
|---|---|---|
| Sir James King, Bart., LL.D.,- | 1887 | Chancellor. |
| Alexander Ure, LL.B., Q.C., M.P., | 1899 | Rector. |
| Robert M. Mitchell, - - | 1899 | Lord Provost, Magistrates, and Town Council of Glasgow. |
| Sir John N. Cuthbertson, LL.D., | 1889 | General Council. |
| D. C. M'Vail, M.B., - - | 1891 | |
| Sir James Bell, Bart., - - | 1899 | |
| W. Robertson Copland, - - | 1900 | |
| Professor Stewart, D.D., - | 1889 | Senate. |
| Professor Young, M.D.,- - | 1899 | |
| Professor Moir, LL.D., - - | 1900 | |
| Professor Raleigh, M.A., - | 1902 | |

### Senatus Academicus.[1]

President, - - - The Principal, - - - - - 1898

Professors.

| | Chairs. | Appointed |
|---|---|---|
| William Hastie, D.D., - - - | *Divinity*,- - - | 1895 |
| George G. Ramsay, LL.D., - - - | *Humanity*, - - | 1863 |
| John Young, M.D.,[2] - - - - | *Natural History*, - | 1866 |
| William Stewart, D.D., - - - | *Biblical Criticism*, - | 1873 |

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[1] See note at foot of next page.

[2] See note on page 95.

| PROFESSORS—*Continued.* | CHAIRS. | Appointed |
|---|---|---|
| T. M'Call Anderson, M.D., | *Practice of Medicine,* | 1900[1] |
| John Ferguson, M.A., LL.D., F.S.A., | *Chemistry,* | 1874 |
| John Gray M'Kendrick, M.D., LL.D., F.R.S., | *Physiology,* | 1876 |
| James Robertson, D.D., | *Hebrew and Semitic Languages,* | 1877 |
| John Cleland, M.D., LL.D., D.Sc., F.R.S., | *Anatomy,* | 1877 |
| William Jack, LL.D., | *Mathematics,* | 1879 |
| Frederick O. Bower, Sc.D., F.R.S., | *Botany,* | 1885 |
| Alexander Moody Stuart, LL.D., | *Law,* | 1887 |
| Archibald Barr, D.Sc., | *Civil Engineering and Mechanics,* | 1889 |
| James Moir, LL.D., | *Conveyancing,* | 1889 |
| John Harvard Biles, LL.D., | *Naval Architecture, including Marine Engineering,* | 1891 |
| William Macewen, M.D., Hon. F.R.C.S., LL.D., F.R.S., | *Surgery,* | 1892 |
| Ludwig Becker, Ph.D., | *Astronomy,* | 1893 |
| Murdoch Cameron, M.D., | *Midwifery,* | 1894 |
| Henry Jones, LL.D., | *Moral Philosophy,* | 1894 |
| William Smart, D.Phil., LL.D., | *Political Economy,* | 1896 |
| Ralph Stockman, M.D., | *Materia Medica,* | 1897 |
| John Glaister, M.D., | *Forensic Medicine,* | 1898 |
| James Cooper, D.D., | *Church History,* | 1898 |
| Robert Muir, M.D., | *Pathology,* | 1899 |
| John S. Phillimore, M.A., | *Greek,* | 1899 |
| Andrew Gray, LL.D., F.R.S., | *Natural Philosophy,* | 1899 |
| Dudley J. Medley, M.A., | *History,* | 1899 |
| Sir Hector C. Cameron, M.D., | *Clinical Surgery,* | 1900 |
| Walter A. Raleigh, M.A., | *English Language and Literature,* | 1900 |
| Samson Gemmell, M.D., | *Clinical Medicine,* | 1900 |
| Robert Latta, M.A., D.Phil., | *Logic and Rhetoric,* | 1902 |

*Note.*—"The precedency of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

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[1] Professor Anderson occupied the Chair of Clinical Medicine from 1874 till he was appointed to the Chair of Practice of Medicine in 1900.

## Deans of the several Faculties.

| | |
|---|---|
| *Arts*, | Professor Jones. |
| *Science*, | Professor Gray. |
| *Medicine*, | Professor Anderson. |
| *Law*, | Professor Smart. |
| *Theology*, | Professor Stewart. |

## Lecturers.

| | |
|---|---|
| John Young, M.D., | *Honyman Gillespie Lecturer.* |
| David Yellowlees, M.D., LL.D., | *Insanity.* |
| Thomas Barr, M.D., | *Diseases of the Ear.* |
| J. Walker Downie, M.B., | *Diseases of the Throat and Nose.* |
| James F. Gemmill, M.A., M.D., | *Embryology.* |
| Wm. Galbraith Miller, LL.B., | *Public International Law; International Private Law; and General Jurisprudence.* |
| Wm. S. M'Kechnie, LL.B., D.Phil., | *Constitutional Law and History.* |
| James M. Irvine, B.Sc., LL.B., | *Civil Law.* |
| William Shaw, | *Mercantile Law.* |
| W. C. Anderson, D.Sc., | *Metallurgical Chemistry.* |
| Matthew A. Parker, B.Sc., | *Organic Chemistry.* |
| J. B. Henderson, D.Sc., | *Electrical Engineering.* |
| Henry Bamford, M.Sc., | *Engineering Drawing and Design.* |
| D. A. Slater, M.A., | *Humanity.* |
| George Macdonald, M.A., | *Greek.* |
| David H. Crawford, M.A., | *Anglo-Saxon.* |
| John L. Morison, M.A., | *British History.* |
| Charles Martin, M.A. (Paris), O.A., | *French Language and Literature.* |
| George P. Thistlethwaite, B.A., Ph.D., | *German Language and Literature.* |
| Thomas H. Weir, B.D., | *Hebrew and Arabic or Syriac.* |
| Robert A. Duff, M.A., | *Political Philosophy.* |
| John Adams, M.A., B.Sc., | *Education.* |
| Horatio S. Carslaw, M.A., D.Sc., <br> Robert J. T. Bell, M.A., B.Sc., | *Mathematics.* |
| Walter Stewart, M.A., D.Sc., | *Electricity, Pure and Applied.* |

| | |
|---|---|
| Magnus Maclean, M.A., D.Sc., - | - *Celtic.* |
| Émile Boutroux, - - - | - *Natural Theology* (Gifford Foundation), 1903-5. |
| Fernando Agnoletti, - - - | - *Italian Language and Literature.* |
| * Thomas Gray, D.Sc., Ph.D., - | - *Chemistry.* |
| * Thomas H. Bryce, M.A., M.B., | - *Anatomy.* |
| * William MacLennan, M.B., C.M., | - *Materia Medica.* |
| * Charles Workman, M.D., - - | - *Pathology.* |
| * J. H. Pringle, F.R.C.S., - - | - *Surgery.* |
| * J. Lindsay Steven, M.D., - | - *Practice of Medicine.* |
| * A. M. Ramsay, M.D., - - | - *Diseases of the Eye.* |
| * David H. Crawford, M.A., - | - *English Language and Literature.* |
| * Norman D. Smith, M.A., - | - *Logic.* |
| * Robert A. Duff, M.A., - - | - *Moral Philosophy.* |
| * James Blyth, M.A., LL.D., F.R.S.E., | *Natural Philosophy.* |
| * William H. Lang, D.Sc., - - | - *Botany.* |

## Boards of Studies.—1902-3.

**In Arts.** *Language and Literature.*—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Robertson, Phillimore, and Raleigh, Messrs. George Macdonald, D. A. Slater, Charles Martin and G. P. Thistlethwaite.—Professor Raleigh, *Convener.*

*Mental Philosophy.*—The Principal, the Dean of the Faculty of Arts, Professors Smart and Phillimore, Messrs. R. A. Duff, Norman D. Smith, and John Adams.—Professor Jones, *Convener.*

*Science.*—The Principal, the Dean of the Faculty of Arts, Professors Young, Ferguson, Jack, Bower, Becker, and Gray, Drs. Blyth and Thomas Gray.—Professor Jack, *Convener.*

*History and Law.*—The Principal, the Dean of the Faculty of Arts, Professors Medley and Raleigh, Dr. M'Kechnie, and Messrs. Irvine and Morison—Professor Medley, *Convener.*

*English* (*Language, Literature, and British History*).—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Phillimore, Medley, and Raleigh, Dr. M'Kechnie, and Mr. Morison.—Professor Raleigh, *Convener.*

* Lecturers at Queen Margaret College.

*Economic Science.*—The Principal, the Dean of the Faculty of Arts, Professors Smart and Medley, Dr. M'Kechnie, and Messrs. W. G. Miller and Irvine.—Professor Smart, *Convener.*

**In Science.** — Professors Young, Ferguson, M'Kendrick, Cleland, Jack, Bower, Barr, Biles, Becker, and Gray, Dr. W. C. Anderson, Dr. J. B. Henderson, and Mr. M. A. Parker.—Professor Gray, *Convener.*

**In Medicine.**—Professors Young, Anderson, Ferguson, M'Kendrick, Cleland, Bower, Macewen, Murdoch Cameron, Stockman, Glaister, Muir, Gray, Sir Hector C. Cameron, and Gemmell, Drs. Yellowlees, Thomas Barr, Downie, Workman, A. M. Ramsay, Bryce, Pringle, Maclennan, J. Lindsay Steven, J. F. Gemmill, Blyth and Gray—the Dean of the Faculty of Medicine, *Convener.*

## University Assistants or Demonstrators.

| | |
|---|---|
| *Humanity,* - - - - | David A. Slater, M.A.<br>Daniel Rankin, B.A. |
| *Greek,* - - - - - | George Macdonald, M.A. |
| *English Language and Literature,* - - - - | David H. Crawford, M.A.<br>D. Nichol Smith, M.A. |
| *Hebrew and Semitic Languages,* | Thomas H. Weir, B.D. |
| *Logic,* - - - - - | Norman D. Smith, M.A. |
| *Moral Philosophy,* - - | Robert A. Duff, M.A. |
| *Political Economy,* - - | Thomas Jones, M.A.<br>Stanley H. Turner, M.A. |
| *Mathematics,* - - - - | Horatio S. Carslaw, M.A., D.Sc.<br>Robert J. T. Bell, M.A., B.Sc. |
| *Natural Philosophy,* - - | Walter Stewart, M.A., D.Sc. |
| Arnott and Thomson Demonstrator in *Experimental Physics,* - - - - | James W. Peck, M.A. |
| *History,* - - - - - | John L. Morison, M.A. |
| *Civil Engineering and Mechanics,* - - - - | Harry Bamford, M.Sc.<br>James B. Henderson, D.Sc.<br>William Alexander.<br>William G. Strang, B.Sc.<br>John S. Nicholson, B.Sc. |
| *Naval Architecture,* - - | Charles S. Douglas, B.Sc. |

| | |
|---|---|
| *Botany*, - - - - | William H. Lang, D.Sc., M.B., C.M.<br>D. T. Gwynne Vaughan, M.A. |
| *Natural History*, - - - | |
| Baxter Demonstrator in *Geology*, | Frederick Mort, M.A., B.Sc. |
| *Chemistry*, - - - - | William C. Anderson, D.Sc., M.A.<br>Matthew A. Parker, B.Sc.<br>James Roberts, F.C.S. |
| *Anatomy*, - - - - | James F. Gemmill, M.A., M.D.<br>William K. Hutton, M.A., M.B., C.M.<br>Archibald N. M'Lellan, M.B., C.M.<br>——— ——— |
| *Physiology*, - - - - | Walter Colquhoun, M.A., M.B., C.M. (Muirhead Demonstrator).<br>John P. Duncan, B.Sc., M.B., Ch.B. |
| *Materia Medica*. - - - | Francis J. Charteris, M.B., Ch.B. |
| *Pathology*, - - - - | Alexander R. Ferguson, M.B., C.M.<br>James Walker, M.B. |
| *Forensic Medicine*, - - | George A. Brown, M.B., C.M. |
| *Surgery*, - - - - - | Robert Kennedy, D.Sc., M.D., C.M. |
| *Clinical Surgery* (Dr. Macewen), | J. A. C. Macewen, B.Sc., M.B., C.M. |
| *Clinical Surgery* (Sir H. C. Cameron), - - - | Alfred A. Young, M.A., M.B., C.M. |
| *Practice of Medicine*, - - | William R. Jack, B.Sc., M.D.<br>John W. Nicol, M.B., C.M. |
| *Clinical Medicine* (Dr. Anderson), - - - | William R. Jack, B.Sc., M.D.<br>James Hinshelwood, M.A., M.D. |
| *Clinical Medicine* (Dr. Gemmell), | Alfred Webster, M.D., C.M. |
| *Midwifery*, - - - - - | John M. M. Kerr, M.B., C.M. |
| *Conveyancing*, - - - | William Guy. |

## Examiners for Degrees.

*In Divinity.*—The Professors in the Faculty of Theology, assisted by the Rev. John Maclean, D.D., and the Rev. Henry Bremner, D.D.

*In Law.*—The Professors and Lecturers in the Faculty of Law, assisted by

| | |
|---|---|
| Robert B. Taylor, M.A., - - - - - | 1900 |
| Hugh P. Macmillan, LL.B., - - - - | 1902 |

| | |
|---|---|
| F. G. Mackillop, LL.B., | 1902 |
| A. A. Mitchell, LL.B., | 1902 |

*In Medicine.*—The Professors and Lecturers in the Faculty of Medicine, as specified in Section XXIV. of Ordinance No. 14, and the following Additional Examiners:—

| | | | |
|---|---|---|---|
| B. C. A. Windle, M.A., M.D., D.Sc. | 1900 | Albert Carless, M.B. | 1901 |
| H. Harvey Littlejohn, M.A., M.B., B.Sc. | 1900 | William Hunter, M.D. | 1901 |
| R. J. Harvey Gibson, M.A. | 1900 | Ebenezer Duncan, M.D. | 1902 |
| Robert Jardine, M.D. | 1900 | Magnus Maclean, D.Sc. | 1902 |
| De Burgh Birch, | 1901 | Sydney Jones, M.D. | 1902 |
| James Ritchie, M.D. | 1901 | R. B. Ness, M.D. | 1902 |
| | | D. R. Boyd, D.Sc. | 1902 |
| | | Malcolm Laurie, D.Sc. | 1902 |

*In Arts.*—The Professors and Lecturers in the Faculty of Arts, as specified in Section XIV. of Ordinance No. 13, assisted by the following Additional Examiners:—

| | | |
|---|---|---|
| James C. Smith, B.A., | Classics, | 1900 |
| Arthur D. Millar, M.A., | Classics, | 1902 |
| Robert B. Pattie, B.D., | Hebrew, | 1900 |
| William F. Trotter, M.A., | Logic and Moral Philosophy, | 1901 |
| Thomas Bayne, | English, | 1901 |
| Robert B. Taylor, M.A., | Political Economy, | 1901 |
| Arthur Hassall, M.A., | History, | 1901 |
| Stewart A. Robertson, M.A., | Education, | 1901 |
| Alec Cran, M.A., | French, | 1901 |
| Louis Lubovius, Ph.D., | German, | 1901 |
| George A. Gibson, M.A., | Mathematics & Nat. Philosophy, | 1902 |
| D. R. Boyd, D.Sc., | Chemistry, | 1902 |
| Malcolm Laurie, D.Sc., | Zoology, | 1902 |
| F. G. M'Killop, LL.B., | Roman Law, | 1902 |
| A. A. Mitchell, LL.B., | Philosophy of Law, | 1902 |

*In Science.*—Professor Young, M.D., Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, Sc.D., Professor Barr, D.Sc., Professor Biles, LL.D., Professor Becker, Ph.D., Professor Gray, LL.D., assisted by additional examiners.

*Preliminary Examiners in Arts, Science, and Medicine.*—Professor Ramsay, LL.D., Professor Jack, LL.D., Professor Phillimore, M.A., Professor Medley, M.A., †Professor Raleigh, M.A., †Robert G. Nisbet, M.A., George Macdonald, M.A., Horatio S. Carslaw, D.Sc., †Charles Martin, M.A., Alec Crau, M.A., George P. Thistlethwaite, Ph.D., Louis Lubovius, Ph.D., †Alex. V. Lothian, M.A., B.Sc., Robert B. Pattie, B.D., A. M. Williams, M.A.

## Other Officials.

| | |
|---|---|
| *Keeper of Hunterian Library and Museum,* | Professor Young, M.D. |
| *Under-Keeper,* | John Mackay. |
| „ *(Pathological Department),* | John H. Teacher, M.A., M.B., C.M. |
| *Librarian,* | James Lymburn. |
| *Sub-Librarian,* | James L. Galbraith. |
| *Secretary to the University Court,* | Alan E. Clapperton, B.L., 91 West Regent Street. |
| *Clerk of Senate,* | Professor Stewart, D.D., 18 Annfield Terrace, Partickhill. |
| *Assistants to the Clerk of Senate,* | W. Innes Addison, Matriculation Office.<br>James Coutts, M.A., Registration Office.<br>Miss Galloway, Secretary at Queen Margaret College. |
| *Registrar of the General Council,* | James Coutts, M.A. |
| *Clerk of the General Council,* | Archibald Craig, LL.B., 156 St. Vincent Street. |
| *Factors,* | Hill & Hoggan, 194 Ingram Street. |
| *Law-Agents,* | Mitchells, Johnston & Co., 160 West George Street. |
| *Auditors,* | Brown, Fleming & Murray, 163 West George Street. |
| *Publishers and Booksellers to the University,* | James MacLehose & Sons, 61 St. Vincent Street. |
| *Printers to the University,* | Robert MacLehose & Co., 153 West Nile Street. |

† Members of the Joint Board.

| | |
|---|---|
| *Robe Makers to the University*, - - - - | James Thomson & Son, 191 West George Street. |

HEAD SERVANTS.

| | |
|---|---|
| *Bedellus and Janitor*, - - | George P. Gibson. |
| *Master of Works*, - - - | John Stitt. |

## Representatives of the University Court on Charitable and other Boards.

*General Medical Council*—Sir William T. Gairdner, K.C.B.

*Western Infirmary*—Mr. Matthew Arthur and Mr. David Johnston.

*Victoria Infirmary*—Dr. M'Vail and John Hutchison, LL.D.

*West of Scotland Agricultural College*—Dr. M'Vail.

*Glasgow Samaritan Hospital for Women*—Dr. M'Vail.

*Highlands and Islands Educational Trust*—Alexander Ure., K.C., M.P.

*Stirling Educational Trust*—Mr. Charles King.

*West of Scotland Biological Association*—Thomas Reid, M.D., LL.D.

## Representatives of the Senate on Educational and other Boards.

*Glasgow and West of Scotland Technical College*—Professors Young and Barr.

*West of Scotland Agricultural College*—Professor Stewart.

*Glasgow City Educational Endowments Board*—Professor Stewart.

*Glasgow General Educational Endowments Board*—Professors Stewart and Medley.

*Glasgow School of Art*—Professor Raleigh.

*Hutchesons' Educational Trust*—Professor Ramsay.

*John Clark (Mile-End) Bursary Trust*—Professor Stewart.

*Scott Scholarship and Bursaries Trust*—Professor Raleigh.

*Western Infirmary*—Professors Jones and Glaister.

*Royal Infirmary*—Professor Murdoch Cameron.

*Asylum for the Blind*—Professor Ramsay.

*Glasgow Convalescent Home*—Professor Murdoch Cameron.

*Baillie's Institution*—Professor Ferguson.

## Joint Committees of Senate and Court.

### LIBRARY COMMITTEE.

*Appointed by the Senate*—The Principal and Professors Hastie, Ferguson, Medley, Moir, and Raleigh.

*Appointed by the University Court*—Dr. David Murray, Mr. W. R. Copland, and Mr. William Ker.

### MUSEUMS COMMITTEE.

*Appointed by the Senate*—The Principal and Professors Young, Stewart, and Ferguson.

*Appointed by the University Court*—Dr. M'Vail and Mr. R. M. Mitchell.

### OBSERVATORY AND LABORATORIES COMMITTEE.

*Appointed by the Senate*—Professors Ferguson, M'Kendrick, Becker, and Gray.

*Appointed by the University Court*—The Lord Provost and Sir James King, Bart.

## The Carnegie Trust for the Universities of Scotland.

*Trustee representing Glasgow University*—Professor Stewart.

(See Appendix IV.)

## Committee on Civil Service and other External Examinations.

Professors Jack, Jones, Smart, Phillimore, Gray, and Medley, Mr. J. M. Irvine and Dr. H. S. Carslaw—Professor Jones, *Convener.*

## Students' Representative Council.

*President*—Edward Rosslyn Mitchell, M.A.

*Vice-Presidents*—R. S. Masterton, M.A. ; L. P. Richards.

*Secretary*—John Chambers, Students' Union.

*Assistant Secretaries*—A. Cross, M.A. (Divinity) ; R. Harvey, (Arts); J. B. D. Hunter (Medicine); J. I. Greig (Science); G. J. Spreull (Law); and Gertrude D. Bostock (Queen Margaret College).

*Treasurer*—Donald Douglas, M.A., Students' Union.

*Executive Committee:*—The Office-Bearers, with

- *Arts*—D. A. Dick, John Fleck.
- *Medicine*—D. F. Riddell, M.A., D. J. M'Leish, M.A.
- *Queen Margaret College*—Monica M. Gordon (Arts) ; Edith Oversby (Medicine).

## I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.[1]

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal, a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.[1] In the next thirty years seven Professorships were either originally founded or revived, viz. :—those of Mathematics (1691), Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining eighteen Professorships were founded during the present century, viz. :—Natural History, (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893), Political Economy (1896).

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[1] This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan; the second, Semi; the third, Baccalour; the fourth, Magistrand.

## UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted in the fifteenth century as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

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[1] See Dr. Thomas Reid's Account of the University of Glasgow.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £261,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £5,000 from the Bellahouston Trustees for Medical Buildings in the Women's department, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunninghame, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University. Extensive additions to the buildings at Gilmorehill have recently been made, including Engineering Lecture-rooms and Laboratory, Botany Class-rooms, Museum and Herbarium, and an extension of the Anatomical Department. The cost of these additions will be defrayed from the Randolph Bequest and from funds provided by the Bellahouston Trustees, the Trustees of the late James B. Thomson, and other benefactors.

## GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this Court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners continued to exercise their powers till the end of 1897 and issued ordinances, *inter alia*, for Degrees in Arts, Science, Medicine, Law, and Divinity, for the instruction and graduation of Women, and for special study and research. They also issued an ordinance (No. 60) laying down regulations for the constitution of the Students' Representative Council, and regulations under which that Council is entitled to petition the Senatus Academicus and the University Court.

## CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

*Chancellors from the year* 1642.

1642. James Hamilton Marquis of Hamilton.
1660. William Cunningham, Earl of Glencairn.
1661. Andrew Fairfowl, Archbishop of Glasgow.
1664. Alexander Burnett, „ „
1670. Robert Leighton, „ „
1674. Alexander Burnett, „ „
1679. Arthur Ross, „ „
1684. Alexander Cairncross, „ „
1687. John Paterson, „ „
1692. John Carmichael, Earl of Hyndford.
1714. James Graham, Duke of Montrose.
1743. William Graham, „ „
1781. James Graham, „ „
1837. James Graham, „ „
1875. Sir William Stirling-Maxwell, Bart., M.P.
1878. Walter Francis, Duke of Buccleuch and Queensberry, K.G.
1884. John Hamilton Dalrymple, Earl of Stair, K.T.

## RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.[1] In the case of an equality of nations the Chancellor had, in accordance with the Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained (Ord. No. 7) that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The Universities Commission (1858) ordained that the election should take place upon the 15th November (the

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[1] The nations are constituted as follows:—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.
2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.
3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.
4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

16th, if the 15th fell on a Sunday); but by Ordinance No. 139 of the Universities Commission (1889), the election is to take place on such day in the month of October or November as may be fixed by the University Court after consultation with the Senate, but the date cannot be later than the second Saturday in November in any year. The term of office is three years. The Rector is the official President of the University Court.

*Rectors from* 1773.

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| 1773. | Charles Cathcart, Lord Cathcart. |
| 1775. | Lord Chief Baron Montgomerie. |
| 1777. | Andrew Stewart, Esq. of Torrance. |
| 1779. | James Maitland, seventh Earl of Lauderdale. |
| 1781. | Right Hon. Henry Dundas. |
| 1783. | Right Hon. Edmund Burke. |
| 1785. | Robert Graham, Esq. of Gartmore. |
| 1787. | Adam Smith, LL.D. |
| 1789. | Walter Campbell, Esq. of Shawfield. |
| 1791. | Thomas Kennedy, Esq. of Dunure. |
| 1793. | William Mure, Esq. of Caldwell. |
| 1795. | William M'Dowall, Esq. of Garthland. |
| 1797. | George Oswald, Esq. of Auchincruive. |
| 1799. | Right Hon. Sir Ilay Campbell, Lord President. |
| 1801. | William Craig, a Lord of Session. |
| 1803. | Lord Chief Baron Dundas. |
| 1805. | Henry Glassford, Esq. of Dugalston. |
| 1807. | Archibald Colquhoun, Esq. of Killermont. |
| 1809. | Archibald Campbell, Esq. of Blythswood. |
| 1811. | Lord Archibald Hamilton. |
| 1813. | Thomas Graham, Lord Lynedoch. |
| 1815. | David Boyle, Lord Justice Clerk. |
| 1817. | George Boyle, Earl of Glasgow. |
| 1819. | Kirkman Finlay, Esq., M.P. |
| 1820. | Francis Jeffrey, Esq., Advocate. |
| 1822. | Sir James Mackintosh, M.P. |
| 1824. | Henry Brougham, Esq., M.P. |
| 1826. | Thomas Campbell, LL.D. |
| 1829. | Henry Petty, Marquis of Lansdowne. |
| 1831. | Henry Cockburn, Esq., Solicitor-General. |
| 1834. | Lord Stanley, M.P. |
| 1836. | Sir Robert Peel, Bart., M.P. |
| 1838. | Sir J. G. R. Graham, Bart., M.P. |
| 1840. | John Campbell, Marquis of Breadalbane. |
| 1842. | Right Hon. Fox Maule, M.P. |
| 1844. | Andrew Rutherford, Esq. |
| 1846. | Lord John Russell. |

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| 1847. | Colonel Mure of Caldwell. |
| 1848. | Thomas Babington Macaulay, Esq. |
| 1850. | Archibald Alison, Esq., Sheriff of Lanarkshire. |
| 1852. | Earl of Eglinton. |
| 1854. | Duke of Argyle. |
| 1856. | Sir Edward Bulwer Lytton. |
| 1859. | Earl of Elgin. |
| 1862. | Viscount Palmerston. |
| 1865. | John Inglis, Lord Justice Clerk. |
| 1868. | Lord Stanley (afterwards Earl of Derby). |
| 1871. | Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield). |
| 1877. | Right Hon. William Ewart Gladstone, M.P. |
| 1880. | Right Hon. John Bright, M.P. |
| 1883. | Right Hon. Henry Fawcett, M.P. |
| 1884. | Edmund Law Lushington, LL.D., D.C.L. |
| 1887. | Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E. |
| 1890. | Right Hon. Arthur James Balfour, M.P. |
| 1893. | Right Hon. Sir John Eldon Gorst, M.P. |
| 1896. | Right Hon. Joseph Chamberlain, M.P. |
| 1899. | RIGHT HON. EARL OF ROSEBERY, K.G., D.C.L., LL.D. |

## DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

### *Deans from the year* 1800.

1800. James Couper, D.D.
1802. Archd. Campbell, Esq. of Succoth.
1804. Gavin Gibb, D.D.
1806. Duncan Macfarlan, D.D.
1808. Gavin Gibb, D.D.
1810. Duncan Macfarlan, D.D.
1812. Gavin Gibb, D.D.
1814. Stevenson Macgill, D.D.
1815. Archibald Campbell, Esq., M.P.
1817. Sir John Connel.
1819. Archibald Campbell, Esq., M.P.
1821. Sir John Connel.
1823. Archibald Campbell, Esq., M.P.
1825. Sir John Connel.
1827. Archibald Campbell, Esq., M.P.
1829. Sir John Connel.
1831. Archibald Campbell, Esq.
1833. Sir A. Campbell, Bart.
1835. Archibald Campbell, Esq.
1837. Sir A. Campbell, Bart.
1839. Kirkman Finlay, Esq.
1841. Lord Dunfermline.
1843. Sir T. Makdougall Brisbane, Bart.
1845. A. Maconochie, Lord Meadowbank.
1847. Earl of Eglinton.
1849. Colonel Mure of Caldwell, M.P.
1851. W. Lockhart, Esq., M.P.
1853. Colonel Mure.
1854. W. Lockhart, Esq.
1857. W. Stirling, Esq., of Keir, M.P.
1860. J. Moncreiff, Lord Advocate.
1863. Sir A. I. Campbell of Succoth.
1865. Henry Glassford Bell, Esq.
1868. Sir James Fergusson, Bart.
1869. Sir Thos. E. Colebrooke, Bart., M.P.
1872. Archd. Orr Ewing, Esq., M.P.
1876. Alexander B. M'Grigor, LL.D.
1879. James King, Esq.
1882. R. W. Cochran-Patrick, LL.D., M.P.
1885. Alexander Crum, Esq., M.P.
1888. Robert Berry, LL.D.
1896. W. P. Dickson, D.D., LL.D.
1901. The Right Hon. Lord Kelvin, G.C V.O.

## PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, *ex officio*, a member of the University Court.

### *Principals from the year* 1574.

1574. Andrew Melville.
1580. Thomas Smeaton.
1586. Patrick Sharpe.
1615. Robert Boyd.
1622. John Cameron, D.D.
1626. John Strang, D.D.
1650. Robert Ramsay.
1653. Patrick Gillespie.
1661. Robert Baillie, D.D.
1662. Edward Wright.
1684. James Fall.
1690. William Dunlop.
1701. John Stirling.
1728. Neil Campbell.
1761. Wm. Leechman, D.D.
1786. Archd. Davidson, D.D.
1803. William Taylor, D.D.
1823. Duncan M'Farlan, D.D.
1858. Thomas Barclay, D.D.
1873. John Caird, D.D.
1898. Robert Herbert Story, D.D., LL.D.

## UNIVERSITY COURT.

The University Court consists of (*a*) the Rector, (*b*) the Principal, (*c*) the Lord Provost of Glasgow for the time being, (*d*) an Assessor nominated by the Chancellor, (*e*) an Assessor nominated by the Rector, (*f*) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (*g*) four Assessors elected by the General Council, (*h*) four Assessors elected by the Senatus Academicus. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

*Assessors since the University Court was constituted.*

### CHANCELLOR.

1859. John Robertson, D.D., Glasgow.
1865. A. Sym, D.D., New Kilpatrick.
1870. James Pearson, D.D., Strathblane.
1874. Robert Jamieson, D.D., Glasgow.
1878. J. A. Campbell, LL.D., Stracathro.
1887. Sir James King, Bart., LL.D.

### RECTOR.

1860. Thomas Buchanan, Esq.
1863. Walter Buchanan, Esq., M.P.
1866. Archibald Orr Ewing, Esq.
1869. James A. Campbell, LL.D.
1878. Alexander Crum, Esq.
1880. Charles Cameron, M.D., LL.D., M.P.
1884. A. B. M'Grigor, LL.D.
1887. James Grahame, Esq.
1890. Lord Blythswood, LL.D.
1893. Matthew P. Fraser, LL.B.
1896. David Murray, LL.D.
1899. Alexander Ure, LL.B., M.P., Q.C.

### LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

1889. James Colquhoun, LL.D.
1899. Robert M. Mitchell, Esq.

### GENERAL COUNCIL.

1859. Andrew Bannatyne, LL.D.
1864. Lord Kinloch.
1867. Anderson Kirkwood, LL.D.
1887. R. W. Cochran-Patrick, LL.D.
1889. David Hannay, Esq.
1889. Hector C. Cameron, M.D.
1889. Sir John Neilson Cuthbertson.
1891. Rev. J. W. King, M.A., D.D.
1891. D. C. M'Vail, M.B.
1893. Hector C. Cameron, M.D.
1893. Sir John Neilson Cuthbertson.
1895. Rev. J. W. King, D.D.
1895. D. C. M'Vail, M.B.
1897. Hector C. Cameron, M.D.
1897. Sir John Neilson Cuthbertson, LL.D.
1899. D. C. M'Vail, M.B.
1899. Sir James Bell, Bart.

| | |
|---|---|
| 1900. | William Robertson Copland, Esq. |
| 1901. | Sir John Neilson Cuthbertson, LL.D. |
| 1901. | William Robertson Copland, Esq. |

### SENATUS ACADEMICUS.

| | |
|---|---|
| 15th Nov., 1859. | Professor W. Ramsay, M.A. |
| 11th Dec., 1863. | Professor R. Buchanan, LL.D. |
| 12th Dec., 1867. | Professor Allen Thomson, M.D. |
| 11th Jan., 1872. | Professor Sir W. Thomson. |
| 13th Jan., 1876. | Professor Cowan, M.D. |
| 29th Jan., 1880. | Professor Berry, M.A., LL.D. |
| 31st Jan., 1884. | Professor Dickson, D.D., LL.D. |
| 9th Feb., 1888. | Professor G. G. Ramsay, LL.D. |
| 28th Nov., 1889. | Professor Leishman, M.D. |
| 28th Nov., 1889. | Sheriff Berry, LL.D. |
| 28th Nov., 1889. | Professor Stewart, D.D. |
| 28th Nov., 1890. | Professor Ramsay, LL.D. |
| 30th Nov., 1891. | Professor Leishman, M.D. |
| 28th Nov., 1892. | Sheriff Berry, LL.D. |
| 28th Nov., 1893. | Professor Stewart, D.D. |
| 30th Nov., 1893. | Professor Gairdner, M.D., LL.D. |
| 28th Nov., 1894. | Professor Jack, LL.D. |
| 30th Nov., 1895. | Sir W. T. Gairdner, K.C.B., M.D., LL.D. |
| 28th Nov., 1896. | Sheriff Berry, LL.D. |
| 28th Nov., 1897. | Professor Stewart, D.D. |
| 28th Nov., 1898. | Professor Adamson, LL.D. |
| 30th Nov., 1899. | Professor Young, M.D. |
| 28th Nov., 1900. | Professor Moir, LL.D. |
| 28th Nov., 1901. | Professor Stewart, D.D. |
| 6th Mar., 1902. | Professor Raleigh, M.A. |

The Rector's Assessor continues in office three years, and the other Assessors four years.

Under the Universities Act, 1858, the Court has power:

1. To review all decisions of the Senate, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senate, and with the sanction of the Chancellor: provided that all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the fees in the several Classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of Senate, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office; and during the suspension of any Professor, to make provision for the teaching of his class: provided always, that no such sentence of censure, deprivation, etc., shall have effect until approved by Her Majesty in Council.

By Section 19 any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of Her Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, in addition to the powers conferred upon it by the Act of 1858, has power:

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.
2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested,[1] and to receive representations and reports from the Senate and the General Council.
3. To review on representation by any member of the University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.
4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.
5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.[2]
6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or any other person employed in teaching or examining.
7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.
8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.
9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

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[1] An appeal against any decision of the Senate must be lodged with the Secretary of the University Court within fourteen days from the date of the issue of such decision. See Ordinance No. 5.

[2] Ordinance No. 144, which was issued on 29th March, 1895, and came into force immediately after the expiration of the powers of the Commissioners (1889), empowers the University Court at any time to revise and adjust the terms of the commission to be issued at the next vacancy of any chair, with regard to the number of lectures and the period of instruction.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee.[1] After such expiration no new professorship shall be founded otherwise.

By Section 21 of the Act of 1889 the University Court has power to make new ordinances, with the approval of Her Majesty in Council:

1. With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.
2. Altering or revoking any of the ordinances affecting the University which have been or may be framed and passed under the Act of 1858 or the Act of 1889, and making new ordinances: provided that such ordinances, before being submitted to Her Majesty for approval, have been communicated by the University Court to the Senate, the General Council, and the University Courts of the other Universities, and have been laid for twelve weeks before both Houses of Parliament.

The Court is entrusted with the patronage of several of the Professorships, appoints the additional Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

## SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the regulation and superintendence of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Senate continues to possess and exercise the powers possessed by it before the passing of the Act of 1889 so far as they are not modified or altered by that Act or by the Act of 1858. The Principal, as President, has a deliberative and a casting vote. One third of the Senate constitute a quorum.

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[1] Ordinance No. 144 enjoins the University Court before proceeding to the foundation of any new Professorship, to ascertain that there are sufficient means for its endowment, and also to take into consideration the contingent claim which the Professor may have to a pension.

## FACULTIES.

The Universities Commissioners, by Ordinance No. 31, dated 5th June, 1893, settled the constitution of the several Faculties in this University, as follows :—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History, Political Economy.[1] II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Chemistry, Natural History, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Midwifery, Forensic Medicine, Clinical Medicine, Clinical Surgery. IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing, Political Economy.[1] V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

## LECTURERS.

By Ordinance No. 17[2] of the Universities Commission (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and *vice versa* ; and both offices may be held at the same time by the same person.

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[1] See Ordinance No. 149, Section i.

[2] This ordinance is printed at length in the University Calendar for 1893-94, at pp. 504, 505.

Ordinance No. 65 provides that the classes of University Lecturers shall be conducted at the seat of the University, *i.e.* in the city of Glasgow and the immediate neighbourhood thereof, that no classes conducted by Lecturers elsewhere shall qualify for graduation in any Faculty, and that University Lecturers shall be in all respects subject to the discipline of the Senatus Academicus and of the University Court.

## BOARDS OF STUDIES.

By Ordinance No. 11 of the Universities Commission (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in Ordinance No. 11, sections xviii. and xix.

Provision is made in Ordinance No. 42 for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis.* The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine; the Senate appoints the Convener of each Board of Studies in Science.

## UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By Ordinance No. 17[1] of the Universities Commission (1889), the University Court is empowered to determine, after consultation with the Senatus, the number and grade of the Assistants, if any, to be assigned to each Professor. The appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

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[1] See second note on page 43.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, and designated, in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

## EXAMINERS FOR DEGREES.

By Ordinance No. 13, Sections xiv.—xvi., of the Universities Commission (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By Ordinances No. 39, Section vii., and No. 40, Section vii., of the Universities Commission (1889), the Examiners for graduation in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

By Ordinance No. 63, Section ii., of the Universities Commission (1889), the Examiners for graduation in Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

## GENERAL COUNCIL.

[*For names, etc., of Members, see Appendix.*]

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the first Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year seventy members are requisite to constitute a quorum, there being 6031 names on the Register, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance No. 9 of the Universities Commission (1889). The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament. The Vice-Chancellor of Glasgow University is the returning officer.

*Members of Parliament for the Universities of Glasgow and Aberdeen.*

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.
1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.
1876. Right Hon. William Watson, LL.D., Lord Advocate.
1880. Right Hon. JAMES ALEXANDER CAMPBELL, LL.D.

## STUDENTS' REPRESENTATIVE COUNCIL.

The constitution and functions of the Students' Representative Council are regulated by Ordinance No. 60, the provisions of which are as follows :—

I. The Students' Representative Council in each University shall submit to the University Court for approval the regulations under which it has been formed or now exists, and these regulations as approved, or with such alterations as may from time to time be approved by the University Court, shall form the constitution of the Students' Representative Council, and shall, subject to the provisions of this Ordinance, determine the functions thereof, and the mode of election thereto.

II. After the University Court has approved of the constitution of a Students' Representative Council in any University, alterations in the said constitution shall be of no effect unless and until they shall receive the approval of the University Court.

III. (1) The Students' Representative Council shall be entitled to petition the Senatus Academicus with regard to any matter affecting the teaching and discipline of the University, and the Senatus Academicus shall dispose of the matter of the petition, or shall, if so prayed, forward any such petition to the University Court, with such observations as it may think fit to make thereon.

(2) The Students' Representative Council shall be entitled to petition the University Court with regard to any matter affecting the students other than those falling under the immediately preceding sub-section.

(3) Nothing contained in this section shall be held to prejudice any right of appeal which may be competent under section 6, sub-section 2, of the Universities Act, 1889, nor the powers and jurisdiction of the Senatus Academicus with regard to the teaching and discipline of the University.

The Council at present consists of representatives (both men and women) from the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the Students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, a Lodgings Committee, and a Book Exchange Committee.

*Presidents of the Students' Representative Council.*

1885-86. R. M. Wenley, M.A.
1886-87. Gavin Lambie, M.A.
1887-88. C. E. Robertson, M.B., C.M.
1888-89. John H. Harley, M.A.
1889-90. Robert Bell, M.B., C.M.
1890-91. William Newlands.
1891-92. John White, M.A.
1892-93. R. S. Horne, M.A.
1893-94. John H. Pagan, B.D.
1894-95. W. M. R. Pringle, M.A.
1895-96. John S. Thomson, M.A.
1896-97. Hyam Goodman, M.A.
1897-98. Arth. S. Middleton, M.A.
1898-99. James M. Black, M.A.
1899-1900. Ivy M'Kenzie, M.A., B.Sc.
1900-1901. John Muir, B.Sc.
1901-2. EDWARD R. MITCHELL, M.A.

## STUDENTS.

Number of Students in the several Faculties, Session 1901-1902:—

| | | |
|---|---|---|
| MEN. | | |
| In Arts (including Summer Matriculation of 1901, 7), | 658 | |
| Science (including Summer Matriculation of 1901, 3), | 183 | |
| Theology, | 51 | |
| Medicine (including Summer Matriculation of 1901, 71), | 599 | |
| Law, | 198 | |
| Arts and Medicine, | 4 | |
| Arts and Science, | 2 | |
| Science and Medicine, | 1 | |
| Single class enrolment, | 3 | |
| | | 1699 |
| WOMEN. | | |
| In Arts (including Summer Matriculation of 1901, 3), | 272 | |
| Science (including Summer Matriculation of 1901, 1), | 8 | |
| Medicine (including Summer Matriculation of 1901, 16), | 71 | |
| Arts and Medicine, | 1 | |
| Single class enrolment, | 8 | |
| | | 360 |
| Total, | | 2059 |

Ordinance No. 50 of the Universities Commission (1889) requires that each student shall pay a matriculation fee of One Guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea. Ordinance No. 147 contains the following regulation with regard to matriculated students:—No person shall be deemed to be a matriculated student in any University or shall enjoy any of the privileges of a matriculated student unless, in addition to paying the matriculation fee, he is enrolled as a student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a matriculated student, in addition to the fee payable for such examination or graduation. The University Court is empowered in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz.:—(1) That attendance on any class without payment of the matriculation fee shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class. The office of the Clerk of Senate will be open for the purpose of Matriculation on and after 15th October.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Science, Medicine, Law, and Divinity, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

By Ordinance No. 18[1] of the Universities Commission (1889) the University Court was empowered to admit women to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary certain wards are appropriated to the clinical instruction of women.

### UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated on certain Sundays during the Winter Session at 2.30 P.M., in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

### GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

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[1] This ordinance is given in full in the *University Calendar* for 1892-93, pp. 504-506.

Gymnastic, Boxing, and Fencing classes are held during the session. Mr. Benson, who has acted as Instructor since the opening of the Gymnasium, has now retired; but a new Instructor will be appointed and classes will be conducted as usual next winter session. They meet at various hours in the forenoon and afternoon, each class meeting three days a week. Students may join any class which is convenient for them. Further particulars will be announced at the beginning of the session.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and a special evening class is formed for their benefit, which meets on Mondays and Thursdays from 8 P.M. till 10 P.M.; also a Boxing class if it is desired.

Fees.—Gymnastics. *For all Students:* One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; Six months, 20s. *For Non-Students:* the Quarter (*i.e.* twice a-week for three months), 15s.; whole season (seven months), 35s. Fencing and Boxing: 10s. for a course of twelve lessons. Special arrangements are made for the summer session.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1902, was gained by A. S. Dunlop, M.A. The Bronze Medal for competition among the non-students is also continued, and in 1902 was gained by Malcom Dunlop, LL.B.

Badges presented by the Ladies of the University are awarded to the second in each of the annual competitions for the Oxford Silver and Bronze Medals; in 1902 they were gained by S. Mort and J. R. Aitken, LL.B., respectively.

In 1899 Professor Ramsay presented to the Gymnasium a Silver Challenge Cup for annual competition among teams representing the four Nations into which students are divided in voting at the Rectorial elections. In the competition held in March, 1902, the winning team was Glottiana, composed of the following members: S. Mort, A. C. Amy, T. L. Craig, and J. Baillie.

Gymnastic classes for members of Queen Margaret College are also arranged.

The Gymnasium is managed by a joint-committee of professors and students.

*Hon. President*, Professor G. G. Ramsay, LL.D.

*Hon. Treasurer*, Alan E. Clapperton, B.L., 91 West Regent Street, Glasgow.

*Hon. Secretary*, A. S. Dunlop, M.A., Glenview, Greenock.

### ARMY COMMISSIONS FOR UNIVERSITY CANDIDATES.

1. Graduates in Arts or in Science of this University, and students who have passed all the examinations for the Degree of M.A. or for the Degree of B.Sc., are eligible for Commissions in the Cavalry and Infantry of the line. The limits of age are from 17 to 23.

2. Students of this University who have passed "the Examination of Candidates for the Army," are also eligible for Commissions. They are required to attend one class in each of the following three departments, viz.: (*a*) Latin or Greek; (*b*) Logic or Moral Philosophy or English Literature; (*c*) Mathematics or Natural Philosophy,—and to pass the examination on the M.A. standard in the three subjects in which they have attended classes. The limits of age in this case are from 17 to 22.

Candidates for Certificates of having passed the Examination for the Army must enter their names and pay the Fees at the Matriculation Office at the same times as Candidates for the M.A. Examinations. The Fee for the Examination is Two Guineas.

### TRAINING FOR THE HOME CIVIL SERVICE, THE INDIAN CIVIL SERVICE, AND EASTERN CADETSHIPS.

The Senate desire to make known the facilities offered to the students of the University who wish to prepare for the open competition for these appointments while carrying on their studies for the M.A. or B.Sc. degree. The range of subjects and the scale of marks are well adapted to the course of study pursued by the student for the Honours degree in Arts. Intending candidates should in all cases read for Honours—in at least one group. The age limits allow ample time for a second Honours school—if thought advisable; and the combination of Classical Honours with those of any of the other departments—such as Mathematics and Natural Philosophy, History, English, Philosophy, Economic Science, or Modern Languages—would be extremely valuable for the purpose. Students of Mathematics may be more fitted to take up the scientific subjects—Physics, Chemistry, Botany, Zoology, Geology, etc. Suitable preparation for these will be found in the courses for the degree of B.Sc. in Pure Science, and it is believed that the regulations now in force will make these subjects specially valuable to students of this University. Some of the courses for the degrees in Law are also recommended to candidates.

The following table shows the subjects of examination, with the marks assigned to each, and also the classes in the University which are suitable in each case.

N.B.—*The regulations are liable to alteration from year to year.*

| *Subject of Examination.* | *Marks.* | *Classes in the University.* |
|---|---|---|
| Latin Language and Literature, | 750 | Latin: Honours. |
| Roman History, | 400 | Latin: Honours: Roman Law. |
| Greek Language and Literature, | 750 | Greek: Honours. |
| Greek History, | 400 | |
| Mathematics (Pure and Applied), | 900 | Mathematics: Intermediate and Advanced Honours.<br>Natural Philosophy: Ordinary and Honours. |
| Advanced Mathematics (Pure and Applied), | 900 | |
| Physics | 600[1] | Natural Philosophy: Ordinary: and Physical Laboratory. |
| Chemistry, | 600[1] | Chemistry and Chemical Laboratory. |
| Geology, | 600[1] | Geology. |
| Botany, | 600[1] | Botany and Botanical Laboratory. |
| Zoology, | 600[1] | Zoology and Zoological Laboratory. |
| Animal Physiology, | 600[1] | Physiology and Physiological Laboratory. |
| English Composition, | 500 | English: Ordinary. |
| English Language and Literature, | 500 | English: Ordinary and Honours. |
| English History, | 500 | History: Ordinary.<br>Constitutional Law and History. |
| General Modern History (Special Period), | 500 | History: Honours. |
| Logic and Mental Philosophy, | 400 | Logic. |
| Moral Philosophy, | 400 | Moral Philosophy. |
| Political Economy and Economic History, | 500 | Political Economy. |

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[1] Any number not exceeding three to be taken.

| *Subject of Examination.* | *Marks.* | *Classes in the University.* |
|---|---|---|
| Political Science, | 500[1] | |
| English Law, | 500 | |
| Roman Law, | 500 | Roman Law. |
| French Language and Literature, | 500 | French. |
| German ,, ,, ,, | 500 | German. |
| Sanskrit ,, ,, ,, | 500 | |
| Arabic ,, ,, ,, | 500 | Arabic. |

Candidates may profess any or all of these branches of knowledge, but not more than three of the Natural Science subjects may be taken by the same candidate. (See footnote on p. 54.) No subjects are obligatory. The marks assigned in each branch will be subject to such deduction as the Civil Service Commissioners may deem necessary in order to secure that no credit be allowed for merely superficial knowledge. No deduction will be made in the subjects of English Composition and Mathematics.

### *Age Limits.*

*Home Civil Service.* Clerkships: Class I.

Candidates must have attained the age of 22, and must not have attained the age of 24, on the first day of the examination.

*Indian Civil Service.*

Candidates must have attained the age of 21, and must not have attained the age of 23, on the first day of the year in which the examination is held.

*Eastern Cadetships.*

Candidates must have attained the age of 21, and must not have attained the age of 24, on the first of August in the year in which the examination is held.

N.B.—Students who propose to enter for this examination are strongly advised to determine at the beginning of their course what line of study they can best follow, and to acquaint their Professors or Lecturers with their plans. Full particulars with regard to the competition will be found in the publications of the Civil Service Commission, which may be consulted in the University Reading-Room.

On this subject the Senate, in 1899, appointed a Committee consisting of Professors Jack, Jones, Smart, Phillimore, Gray, Medley, Mr. J. M. Irvine, and Dr. H. S. Carslaw—Professor Jones, convener, and Dr. Carslaw, secretary. The members of this Committee will be glad to give any further information or advice.

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[1] Preparation for this subject may be obtained in the Political Philosophy Class, in the Moral Philosophy (Honours) Class, in the Political Economy (Honours Class, and in certain of the Law Classes.

## *II.—TABLE OF UNIVERSITY FEES.*

### I.—MATRICULATION FEES.

| | | | |
|---|---|---|---|
| At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, ... | £1 | 1 | 0 |
| At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current, ... ... ... ... ... | 0 | 10 | 6 |

### II.—ENTRANCE FEES.

| | | | |
|---|---|---|---|
| On admission, in special circumstances, of persons who are not matriculated Students of the University to any single class in any Faculty, ... ... ... | 0 | 5 | 0 |

N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.

### III.—ENROLMENT FEES (extra-mural lectures).

| | | | |
|---|---|---|---|
| At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognised for Graduation in Medicine or Science, ... ... ... ... ... | 1 | 1 | 0 |

### IV.—EXAMINATION FEES.

| | | | |
|---|---|---|---|
| For Preliminary Examinations in Arts, Science, or Medicine— | | | |
| On each entry for Examination, ... ... ... | 0 | 10 | 6 |
| For Degree of Master of Arts (M.A.)—New Regulations— | | | |
| The Fee for this Degree is ... ... ... ... | 5 | 5 | 0 |
| Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid. | | | |
| For Degree of Bachelor of Science (B.Sc.)—New Regulations— | | | |
| The Fee for this Degree is ... ... ... ... | 5 | 5 | 0 |
| Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid. | | | |
| For Diploma in Education— | | | |
| On entering for Examination, ... ... ... | 2 | 2 | 0 |
| For Certificate in Engineering Science— | | | |
| On entering for last subject of Examination, ... | 1 | 1 | 0 |
| For Degree of Doctor of Letters (D.Litt.)— | | | |
| On lodging Thesis, ... ... ... ... ... | 10 | 10 | 0 |
| For Degree of Doctor of Philosophy (D.Phil.)— | | | |
| On lodging Thesis, ... ... ... ... ... | 10 | 10 | 0 |
| For Degree of Doctor of Science (D.Sc.)— | | | |
| On lodging Thesis, ... ... ... ... .. | 10 | 10 | 0 |

| | | | |
|---|---|---|---|
| For Degrees of Bachelor of Medicine (M.B.), and Bachelor of Surgery (Ch.B.)— | | | |
| On entering for First Professional Examination, ... | £6 | 6 | 0 |
| ,, Second ,, ,, ... | 6 | 6 | 0 |
| ,, Third ,, ,, ... | 5 | 5 | 0 |
| ,, Fourth ,, ,, ... | 5 | 5 | 0 |
| For Degree of Doctor of Medicine (M.D.)—Old Regulations— | | | |
| On lodging Thesis, ... ... ... ... ... | 5 | 5 | 0 |
| For Degree of Doctor of Medicine (M.D.)—New Regulations— | | | |
| On entering for Examination, ... ... ... | 10 | 10 | 0 |
| For Degree of Master of Surgery (Ch.M.)— | | | |
| On entering for Examination, ... ... ... | 10 | 10 | 0 |
| For Degree of Bachelor of Laws (LL.B.)—New Regulations— | | | |
| The Fee for this Degree is ... ... ... ... | 6 | 6 | 0 |
| Payable £1 1s. on entering for each subject till £6 6s. are paid. | | | |
| For Degree of Bachelor of Law (B.L.)—New Regulations— | | | |
| The Fee for this Degree is ... ... ... ... | 5 | 5 | 0 |
| Payable £1 1s. on entering for each subject till £5 5s. are paid. | | | |
| For Degree of Bachelor of Divinity (B.D.)— | | | |
| On entering for Examination in First Department, | 2 | 12 | 6 |
| ,, ,, Second ,, | 2 | 12 | 6 |
| For Examination of Candidates for the Army— | | | |
| On entering for Examination, ... ... ... ... | 2 | 2 | 0 |

V.—Class Fees (*see* pages 58—63 and 140, 141).

VI.—Library Fees.

| | | | |
|---|---|---|---|
| Each Member of the General Council, each year (commencing 14th October) in which he wishes use of Library, ... ... ... ... ... ... ... | 0 | 10 | 6 |
| Or, | | | |
| This may be compounded for by a single payment of ... | 5 | 5 | 0 |
| Every Matriculated Student enrolled in a Class, and every Extra-Mural Student, who wishes use of Library, a *deposit* of ... ... ... ... ... | 1 | 0 | 0 |
| Special Readers—each year in which the privilege is granted, ... ... ... ... ... ... ... | 0 | 10 | 6 |

VII.—Registration Fee.

| | | | |
|---|---|---|---|
| All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The Fee is .. ... ... ... ... ... ... | 1 | 0 | 0 |

# *III.—SEPARATE FACULTIES AND CLASSES.*

The University Classes will meet as follows, daily, unless otherwise specified :—

## WINTER SESSION 1902-3.

## *I.—ARTS.*

### Thursday, 16th October, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Latin, Middle,* | 11 a.m., | £3 3 | Prof. Ramsay. |
| ——— *Senior,* | 8 a.m. or 9 a.m. and 1 p.m., | 3 3 | |
| ——— *Private or Honours,* | 1 p.m., | 3 3 | |
| ——— *Prose,* | 1 p.m., Wed. or 11 a.m., Thurs., | 1 1 | |
| *Greek, Middle,* | 10 a.m., | 3 3 | Prof. Phillimore. |
| ——— *Senior,* | 8 a.m., | 3 3 | |
| ——— *Honours,* | 12 noon, | 3 3 | |
| ——— *Prose,* | 12 noon, once weekly, | 1 1 | |
| *English,* | 11 a.m., | 3 3 | Prof. Raleigh. |
| ———*Honours,* | 12 noon, | 3 3 | |
| *French,* | 11 a.m., | 3 3 | M. Charles Martin. |
| ——— *Honours,* | 12 noon, Tues., Fri., and alternate Wed., | 3 3 | |
| *German,* | 10 a.m., | 3 3 | Mr. George P. Thistlethwaite. |
| ——— *Honours,* | 12.15 p.m. Mon., Thurs., and alternate Wed., | 3 3 | |
| *Italian,* | | 3 3 | Signor F. Agnoletti. |
| *Hebrew, Junior,* | 10 a.m., | 3 3 | Prof. Robertson. |
| ———*Senior,* | 9 a.m., | 3 3 | |
| *Arabic or Syriac,* | (see p. 130), | 2 2[1] | |
| *Logic and Metaphysics,* | 9 a.m. | 3 3 | Prof. Latta. |
| ——— *Honours,* | 1 p.m., | 3 3 | |
| *Moral Philosophy,* | 8 a.m., | 3 3 | Prof. Jones. |
| ——— *Honours,* | 12 noon, | 3 3 | |
| *Political Economy,* | 2 p.m., | 3 3 | Prof. Smart. |
| ———*Honours,* | 3 p.m., | 3 3 | |
| *Education (Theory, History, and Art of),* | 3.30 p.m., | 3 3 | Mr. John Adams. |
| *Philosophy of Law* (see p. 122), | 4.30 p.m., Mon., Thurs., | 3 3 | Mr. W. G. Miller. |
| *Mathematics,* | 9 a.m., or 12 noon | 3 3 | Prof. Jack. |
| ——— *Honours (Intermed.),* | 10 a.m., or 11 a.m., | 3 3 | |
| ——— *Honours (Advanced),* | 11 a.m., Mon., Wed., Fri., | 3 3 | |
| *Natural Philosophy,* | 9 a.m., | 4 4[2,3] | Prof. Gray. |
| ——— *Honours, Section A,* | 12 noon, Mon., Wed., Fri., | 4 4[2,3] | |
| ——— *Honours, Section B.* | 12 noon, Monday, Tuesday, Thursday, | 4 4[2,3] | |
| ——— *Honours, Sections A. & B.,* | 12 noon, | 5 5[4] | |
| *Physical Laboratory,* | 10 a.m. to 4 p.m., | 6 6 | |
| ——— *(Half Session),* | | 3 3 | |

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[1] For students who are attending, or who have attended, the Hebrew Class, the fee is £1 1s.

[2] Fee for a Second or subsequent Session, £3 3s.

[3] Fee for either Honours Course along with or after Ordinary Class, £3 3s.

[4] Fee for both Sections along with or after the Ordinary Class, £4 4s.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Astronomy, First,* | 3 p.m., Mon., Wed., and Fri., (see p. 86), | £2 2 | Prof. Becker. |
| ——— *Second,* | 3 p.m., Tues., Th., and Fri., (see p. 87), | 2 2 | |
| ——— *First and Second in same Session,* | | 3 3 | |
| *Chemistry,* | 10 a.m., | 3 3 | Prof. Ferguson. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |
| *Zoology,* | 9 a.m., | 3 3 | Prof. Young. |
| *Zoological Laboratory,* | 10 a.m. to 1 p.m., | 3 3 | |
| *Botany, Advanced,* | (see p. 94), | 3 3 | Prof. Bower. |
| *Botanical Laboratory, Advanced* (Jan.), | (see p. 94), | 3 3 | |
| *Botany* (in Summer), | | | |
| *History,* | 10 a.m., | 3 3 | Prof. Medley. |
| ———*Honours,* | 11 a.m., Mon., Wed., Fri., | 3 3 | |
| *Constitutional Law and History,* | 4.30 p.m., | 4 4 | Dr. W. S. M'Kechnie. |
| ———*Honours,* | 1 p.m., Mon., Wed., Fri., | 3 3 | |
| *Roman Law,* | 5.30 p.m., | 4 4 | Mr. J. M. Irvine. |
| *History of Civil Law* (*Half Course*), | 5.30 p.m. (see p. 120), | 3 3 | |

## *II.—SCIENCE.*

### Thursday, 16th October, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Mathematics,* | 9 a.m. or 12 noon, | £3 3 | Prof. Jack. |
| ——— *Honours*(*Intermed.*), | 10 a.m. or 11 a.m., | 3 3 | |
| ——— *Honours*(*Advanced*), | 11 a.m., Mon., Wed., Fri., | 3 3 | |
| *Natural Philosophy,* | 9 a.m., | 4 4[1] | Prof. Gray. |
| *Higher Mathematical A.,* | 12 noon, Mon., Wed., Fr., | 4 4[1 2] | |
| ——— *B.,* | 12 noon, Mon., Tu., Th., | 4 4[1 2] | |
| ——— *A. and B.,* | 12 noon, | 5 5[3] | |
| *Physical Laboratory,* | 10 a.m. to 4 p.m., | 6 6 | |
| ——— (*Half Session*) | | 3 3 | |
| *Electricity,* | 12 noon, Wed. and Fri., | .3 3 | Dr. Walter Stewart. |
| *Astronomy, First,* | 3 p.m., Mon., Wed., and Fri. (see p. 86), | 2 2 | Prof. Becker. |
| ——— *Second,* | 3 p.m., Tues., Th., and Fri. (see p. 87), | 2 2 | |
| ——— *First and Second in same Session,* | | 3 3 | |
| *Chemistry,* | 10 a.m., | 3 3 | Prof. Ferguson. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |
| *Metallurgical Chemistry,* | | 1 1 | Dr. W. C. Anderson. |
| *Organic Chemistry,* | | 1 1 | Mr. M. A. Parker. |
| *Anatomy, Junior,* | 1 p.m., | 3 3 | Prof. Cleland and Demonstrators. |
| ——— *Senior,* | 11 a.m., | 3 3 | |
| *Practical Anatomy,* | 9 a.m. to 4.45 p.m., | 3 3[4] | |

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[1] Fee for a Second or subsequent Session, £3 3s.

[2] Fee for either Higher Course along with or after the Ordinary Class, £3 3s.

[3] Fee for both Sections along with or after the Ordinary Class, £4 4s.

[4] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Physiology,* | 12 noon, | £3 3 | PROF. M'KENDRICK and Muirhead Demonstrator. |
| *Practical Physiology* (in Summer). | | | |
| ——— *Advanced* | (see p. 100), | 4 4[1] | |
| *Physiological Laboratory,* | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |
| *Natural History—* | | | |
| *Zoology* (Oct.), | 9 a.m., | 3 3 | PROF. YOUNG.[2] |
| *Geology and Mineralogy* (Jan.), | 5.30 p.m., | 3 3 | |
| *Zoological Laboratory,* | 10 a.m. to 1 p.m., | 3 3 | |
| *Botany, Advanced,*[3] | (see p. 94), | 3 3 | PROF. BOWER. |
| *Botanical Laboratory, Advanced* (Jan.), | (see p. 94), | 4 4[1] | |
| *Engineering, Class I.,* | 9 a.m., Mon., Wed., Fri., | 2 2 | PROF. BARR, Lecturers and Demonstrators. |
| ——— *Tutorial,* | 9 a.m., Tues., Thurs., | | |
| ——— *II.,* | 8 a.m., Mon., Wed., Fri., | 2 2 | |
| ——— *III.,* | (not in 1902-3). | | |
| ——— *IV.,* | 9 a.m. daily, ex. Sat., | 3 3 | |
| *Engineering Drawing, etc.,* | 9 a.m. to 5 p.m. daily, except Sat., | 3 3 | |
| *Engineering Laboratory,* | 9 a.m. to 5 p.m., | 10 10 | |
| ——— (*Second Session*), | | 5 5 | |
| *Engineering Laboratory, Mechanical or Electrical,* | 9 a.m. to 5 p.m., | 3 3 | |
| *Electrical Engineering,* | 8 a.m. Tues., Thurs., and Sat.. | 2 2 | Dr. James B. Henderson. |
| *Naval Architecture and Marine Engineering, Junior,* | 12 noon, Mon., Wed., and Fri., | 3 3 | PROF. BILES. |
| ——— *Senior,* | 11 a.m., Mon., Tu., & Th., | 3 3 | |
| ——— *Practical, Junior,* | 2 to 5 p.m., Tu., Wed., Th., and Fri., | 3 3 | |
| ——— *Senior,* | 2 to 5 p.m., Tu., Wed., Th., and Fri., | 3 3 | |

## *III.—MEDICINE.*

### THURSDAY, 16TH OCTOBER, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Natural History, Zoology,* | 9 a.m., | £3 3 | PROF. YOUNG.[2] |
| *Zoological Laboratory,* | 10 a.m. to 1 p.m., | 3 3 | |
| *Chemistry,* | 10 a.m., | 3 3 | PROF. FERGUSON. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |
| *Anatomy, Junior,* | 1 p.m., | 3 3 | PROF. CLELAND and Demonstrators. |
| ——— *Senior,* | 11 a.m., | 3 3 | |
| *Practical Anatomy,* | 9 a.m. to 4.45 p.m., | 3 3[4] | |
| *Physiology,* | 12 noon, | 3 3 | PROF. M'KENDRICK and Muirhead Demonstrator. |
| *Physiological Laboratory,* | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |

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[1] Fee for a Second or subsequent Session, £3 3s.

[2] See note on p. 95.

[3] Students who have attended Lectures or Laboratory Classes in Botany at least four times, and paid fees amounting to at least £13 13s. in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Botany for £1 1s.

[4] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Materia Medica and Therap.*, | 1 p.m., | £3 3 | Prof. Stockman. |
| *Pathology, Systematic*, | 3 p.m., | 3 3 | Prof. Muir. |
| ——— *Demonstrations only*, | | 1 1 | |
| *Surgery*, | 12 noon, | 3 3 | Prof. Macewen. |
| *Midwifery*, | 2 p.m., | 3 3 | Prof. M. Cameron. |
| *Practice of Medicine*, | 11 a.m., | 3 3 | Prof. Anderson. |
| *Clinical Medicine*, | 9 a.m., | (see p. 65) | Prof. Gemmell and Prof. Anderson. |
| *Clinical Surgery*, | 9 a.m., | (see p. 65) | Prof. Sir H. C. Cameron and Prof. Macewen. |
| *Public Health Laboratory*, | (see p. 104), | 12 12 | Professor Glaister and Assistant. |
| ———*(Half Session)*, | | 6 6 | |
| *Ear*, | 4 p.m., Mon. (see p. 111), | 1 1 | Dr. Thomas Barr. |
| *Throat and Nose*, | 4 p.m., Th. (University),<br>4 p.m., Tues. or Fri. (Western Infirmary), | 1 1 | J. Walker Downie, M.B. |

## *IV.—LAW.*

### Thursday, 16th October, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Scots Law*, | 8 a.m., | £4 4[1] | Prof. Moody Stuart. |
| *Civil Law*, | 5.30 p.m., | 4 4[1] | Mr. J. M. Irvine. |
| *Conveyancing*, | 8 a.m., | 4 4[1] | Prof. Moir. |
| *Constitutional Law and History*, | 4.30 p.m., | 4 4[1] | Dr. W. S. M'Kechnie. |
| ——— *(Half Course)*, | | 3 3 | |
| *Mercantile Law*, | 5.30 p.m., | 4 4[1] | Mr. William Shaw. |
| ——— *(Half Course)*, | | 3 3 | |
| *Public International Law*, | 5.30 p.m., Mon., Th., | 3 3 | Mr. W. G. Miller. |
| *Jurisprudence, General or Comparative*, | 4.30 p.m., Mon., Th., | 3 3 | |
| *International Private Law* | (in Summer), | | |
| *Political Economy*, | 2 p.m., | 3 3 | Prof. Smart. |
| *Forensic Medicine*, | 9 a.m. (Jan.), | 3 3 | Prof. Glaister. |

## *V.—THEOLOGY.*

### Thursday, 16th October, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Divinity, Senior*, | 11 a.m., | £3 3 | Prof. Hastie. |
| ——— *Junior*, | 12 noon, | 3 3 | |
| *Hebrew, Junior*, | 10 a.m., | 3 3 | Prof. Robertson |
| ———*Senior*, | 9 a.m. daily, and 12 noon, Tu. and Th., | 3 3 | |
| *Arabic or Syriac*, | (see p. 130), | 2 2[2] | |
| *Ecclesiastical History, Junior*, | 11 a.m., | 3 3 | Prof. Cooper. |
| ———*Senior*, | 12 noon, | 3 3 | |
| *Biblical Criticism*, | 10 a.m., | 3 3 | Prof. Stewart. |
| *New Testament Greek*, | 9 a.m., Mon., Wed., Fri., | 2 2 | |

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[1] Fee for a Second or subsequent Session £3 3s.

[2] For students who are attending, or have attended, the Hebrew Class, the Fee is £1 1s.

## SUMMER SESSION 1903.

### *I.—ARTS.*

WEDNESDAY, 22ND APRIL, 1903.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Physical Laboratory*, . | . 10 a.m. to 4 p.m., | . £4 4 | PROF. GRAY. |
| *Chemical Laboratory*, . | . 10 a.m. to 4 p.m., | . 5 5 | PROF. FERGUSON. |
| *Practical Zoology*, . | . 10 a.m. to 1 p.m., | . 3 3 | [1]PROF. YOUNG. |
| *Botany*, . . . . | . 8 a.m. (see p. 94), | . 3 3 | PROF. BOWER. |
| *Botanical Laboratory*, | . 9 a.m. to 4 p.m., | . 3 3 | |
| *Latin*, . . . | . 11 a.m., . . | . 2 2 | [2]Mr. D. A. Slater. |
| *Greek*, . . . | . 10 a.m., . . | . 2 2 | [2]Mr. G. Macdonald, |
| *Mathematics*, . . | . 9 a.m., . . | . 2 2 | [2]Dr. H. S. Carslaw.<br>[2]Mr. R. J. T. Bell. |
| *Hebrew*, . . . . | . 9 a.m., . . | . 2 2 | PROF. ROBERTSON and<br>Mr. T. H. Weir. |
| *Political Philosophy*, . | . . . . . | . 2 2 | Mr R. A. Duff. |

### *II.—SCIENCE.*

WEDNESDAY, 22ND APRIL, 1903.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Practical Zoology*, . | . 10 a.m. to 1 p.m., | . £3 3 | [1]PROF. YOUNG. |
| *Botany*, . . . . | . 8 a.m. (see p. 94), | . 3 3 | PROF. BOWER. |
| *Botanical Laboratory*, | . 9 a.m. to 4 p.m., | . 3 3 | |
| *Physical Laboratory*, . | . 10 a.m. to 4 p.m., | . 4 4 | PROF. GRAY. |
| *Chemical Laboratory*, . | . 10 a.m. to 4 p.m., | . 5 5 | PROF. FERGUSON. |
| *Chemistry, Higher*, . | . | . 3 3 | |
| *Metallurgical Chemistry* | . | . 1 1 | Dr. W. C. Anderson. |
| *Organic Chemistry*, . | . | . 1 1 | [2]Mr. M. A. Parker. |
| *Practical Anatomy*, . | . 8 a.m. to 3 p.m., | . 2 2[3] | PROF. CLELAND and<br>Demonstrators. |
| *Practical Physiology*, . | . 12 noon, . . | . 3 3 | PROF. M'KENDRICK and<br>Muirhead Demonstrator. |
| *Physiological Laboratory*, | . 10 a.m. to 4 p.m., | . 5 5 | |

### *III.—MEDICINE.*

WEDNESDAY, 22ND APRIL, 1903.

| *Classes.* | *Hours.* | *Class Fees* | |
|---|---|---|---|
| *Physics*, . . . . | . 11 a.m., . | . £3 3 | PROF. GRAY & Arnott &<br>Thomson Demonstrator. |
| *Botany*, . . . . | . 8 a.m. (see p. 94), | . 3 3 | PROF. BOWER. |
| *Botanical Laboratory*, | . 9 a.m. to 4 p.m., | . 3 3 | |
| *Clinical Medicine*, . | . 9 a.m., . . | (see p. 65) | PROF. GEMMELL and<br>PROF. ANDERSON. |
| *Clinical Surgery*, . | . 9 a.m., . . | (see p. 65) | PROF. SIR H. C. CAMERON<br>and PROF. MACEWEN. |

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[1] See note on p. 95.

[2] Lecturers for 1902. The Lecturers for 1903 will be appointed in March.

[3] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

| *Classes.* | *Hours.* | *Class Fees.* | | |
|---|---|---|---|---|
| *Practical Chemistry,* | 9 to 11 a.m., | £3 | 3[1] | Prof. Ferguson. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 5 | 5 | |
| *Practical Anatomy,* | 8 a.m. to 3 p.m., | 2 | 2[2] | Prof. Cleland and Demonstrators. |
| *Embryology,* | 11 a.m. (see p. 99), | 2 | 2 | Dr. J. F. Gemmill. |
| *Embryological Laboratory,* | 9 a.m. to 4 p.m. (see p. 99), | 3 | 3 | |
| *Practical Anatomy and Embryology,* if taken together, | | 3 | 3 | |
| *Practical Zoology,* | 10 a.m. to 1 p.m., | 3 | 3 | [3]Prof. Young. |
| *Practical Pharmacy,* | 12 noon, | 3 | 3 | Prof. Stockman. |
| *Practical Physiology,*[4] | 12 noon (see p. 100), | 3 | 3 | Prof. M'Kendrick and Muirhead Demonstrator. |
| *Physiological Laboratory,* | 10 a.m. to 4 p.m., | 5 | 5 | |
| *Medical Jurisprudence and Public Health,* | 11 a.m., | 3 | 3 | Prof. Glaister. |
| *Public Health Laboratory,* | (see p. 104), | 6 | 6 | |
| *Practical Pathology,*[4] | 3 p.m. (see p. 103), | 3 | 3 | Prof. Muir. |
| *Operative Surgery,* | 12 noon, with practical work at other hours as may be arranged, | 3 | 3 | Prof. Macewen. |
| *Diseases of Women,* | 2 p.m., Tu., Th., Fri., | 2 | 2 | Prof. M. Cameron. |
| *Insanity,* | 12 noon, Wed. (University),<br>10 a.m. Sat. (Gartnavel), | 2 | 2 | Dr. Yellowlees. |
| *Ear,* | 4 p.m., Mon. (see p. 111), | 1 | 1 | Dr. Thomas Barr. |
| *Throat and Nose,* | 4 p.m., Th. (University),<br>4 p.m., Tues. or Friday. (Western Infirmary), | 1 | 1 | J. Walker Downie, M.B. |

## *IV.—LAW.*

### WEDNESDAY, 22ND APRIL, 1903.

| *Class.* | *Hour.* | *Class Fee.* | | |
|---|---|---|---|---|
| *International Private Law,* | 5.30 p.m., | £3 | 3 | Mr. W. G. Miller. |

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[1] Instead of this Practical Course in Summer, Medical Students may take a three months' course of Laboratory Instruction in Winter.

[2] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

[3] See note on p. 95.

[4] After first Lecture, the Class will meet in divisions.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

WESTERN INFIRMARY.—This Hospital contains 416 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. T. M'Call Anderson, M.D.; James Finlayson, M.D., LL.D.; Prof. Samson Gemmell, M.D.; Prof. Ralph Stockman, M.D. *Honorary Consulting Physicians*—Gavin P. Tennent, M.D.; Sir William

T. Gairdner, K.C.B., M.D., LL.D., F.R.S. *Physicians for Diseases of Women*—W. L. Reid, M.D.; Professor Murdoch Cameron, M.D. *Assistant Physicians*—John Alexander, M.D.; William G. Dun, M.D.; R. S. Thomson, M.D.; R. B. Ness, M.D. *Surgeons*—Professor Sir Hector C. Cameron, M.D.; Professor William Macewen, M.D., LL.D., F.R.S.; J. C. Renton, M.D.; George T. Beatson, M.D.; T. K. Dalziel, M.B. *Honorary Consulting Surgeon*—George Buchanan, M.D., LL.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D., LL.D. *Assistant Surgeons*—James H. Nicoll, M.B.; Duncan Macartney, M.D.; Robert Kennedy, M.A., D.Sc., M.D.; Alfred A. Young, M.A., M.B. *Dispensary Physicians*—William R. Jack, B.Sc., M.D.; Henry E. Jones, M.B.; Hugh Galt, M.B.; James Carslaw, M.A., M.B., C.M.; John M. Cowan, B.A., M.B., B.C.; Alfred Webster, M.D. *Extra Dispensary Physicians*—John S. M'Kendrick, M.D.; Robert Fullarton, M.A., M.B., Ch.B.; James C. M'Clure, M.B., C.M. *Dispensary Physicians for Diseases of Women*—Robert Kirk, M.D.; J. M. Munro Kerr, M.B.; E. H. Lawrence Oliphant, M.D. *Dispensary Surgeons*—George Burnside Buchanan, B.A. (Cantab.), M.B.; John Morton, M.B.; G. H. Edington, M.D. *Extra Dispensary Surgeons*—Farquhar Macrae, M.B., C.M.; Alexander MacLennan, M.B., C.M. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat and Nose*—J. Walker Downie, M.B. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Professor Robert Muir, M.D. *Assistant Pathologist*—A. R. Ferguson, M.D. *Vaccinator*—John W. Nicol, M.B. *Medical Superintendent*—Donald J. Mackintosh, M.B. *Lady Superintendent*—Miss E. C. Shannon. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. No student shall be permitted to attend the Infirmary without a Ticket duly signed by the Superintendent.

2. The Fees payable shall be as follows:—

(*a*) Every Student on payment for the first year of a fee of

£10 10s., will be entitled to admission to the Infirmary also to attend the Winter and Summer Courses of Clinical Instruction during the said year.

(*b*) Every Student, on payment at the commencement of his second year of an additional fee of £10 10s., will have a life privilege of admission to the Infirmary, and to the several Courses of Clinical instruction.

(*c*) The Fee for Hospital attendance and Clinical Instruction for six months only shall be £7 7s.

(*d*) The Fee for Hospital attendance and Clinical Instruction for three months only shall be £4 4s.

(*e*) Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a fee of £2 2s.

(*f*) When a Student pays £21 or upwards in any of the payments fixed by the Managers in respect to his Clinical studies at the Infirmary, he shall be entitled in consequence to a perpetual ticket.

(*g*) There shall be two Courses of Clinical instruction, the first extending from the beginning of November to April, and the second from the beginning of May to July.

(*h*) At the beginning of each Course the Student shall give intimation to the Superintendent of the Clinical Teacher whose course he wishes to attend, by filling up a form which will be supplied on application to the Superintendent.

3. The fees shall be paid to the Superintendent, who shall give each Student a Ticket of Admission to the Lectures of the Physicians or Surgeons he wishes to attend. He shall also hand to each of the Clinical Lecturers a list of the Students who have taken out Tickets for their respective Courses.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10 10s. will make them perpetual Students of the Hospital, and admit also to the Clinical Classes under the above Rules.

4. Students shall have the privilege of accompanying the Physicians or Surgeons in their daily visits to the Patients, and of attending operations and *post-mortem* examinations; but *Students are not permitted to enter any of the Wards except at the visit hour and in the presence of the Physicians and Surgeons.*

5. Students may be allowed the use of the Journals for examination on application to the Superintendent, who shall appoint the time and place for the examination. The Books shall not, on any account or pretext whatever, be carried out of the Hospital; or be written upon, or otherwise defaced. The Janitor is required to take care that no Student shall remain in the Hospital after the hour of visit, except by the express permission of a Physician or Surgeon, or of the Superintendent.

6. Students attending the Physicians or Surgeons during their visits, or while performing operations, and while attending the Dispensary, are to behave with decency and propriety —keeping their hats off, and avoiding at all times doing anything that may disturb the Physicians, Surgeons, Assistants, Dressers, or Patients.

7. Students, when accompanying the Physicians and Surgeons, in visiting the Wards, shall on no account annoy the Patients with unnecessary questions, or offer any advice or opinion to them relative to their diseases; nor can they be allowed to approach such Patients as the Physicians or Surgeons may think proper to keep quiet or private.

8. The Seats in the Area of the Operation-Room during Operations shall be reserved for the attending Physicians and Surgeons, Medical Visitors, and Assistants, and no person shall be allowed to stand in the Area excepting those whom the Operating Surgeon deems necessary.

9. If any Student shall be guilty of infringing any of the above Regulations, he shall be liable to forfeit the benefit of his Ticket, and the privilege of ever attending the House in future.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M.; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 174 Berkeley Street and 80 Charlotte

Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £1 1s.; for twelve months, £2 2s.

OPHTHALMIC INSTITUTION, 126 West Regent Street.—Hour of Visit, 2 P.M. Fee for a qualifying course, £1 1s.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

Clinical Instruction in Fevers is given at the Ruchill Hospital and the Belvidere Hospital. Fee for a course extending over ten weeks, once a week, £1 1s. Apply to Mr. James D. Borthwick, 285 George Street, Glasgow.

There are also Hospitals for Diseases of the Skin and Ear.

## *FACULTIES IN THE UNIVERSITY.*

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

## I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz.:—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Italian, Hebrew and Semitic Languages; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Education, Philosophy of Law; C. *Science*, including Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany; D. *History and Law*, containing History, Constitutional Law and History, Roman Law.

### *A.* LANGUAGE AND LITERATURE.

### I. HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

*Professors from the year* 1706.

1706. Andrew Rosse.
1735. George Rosse.
1754. George Muirhead.
1773. Wm. Richardson, M.A.
1815. Josiah Walker, M.A.
1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D., Litt.D.

The Humanity Class consists of three main divisions—*Middle*, *Senior*, and *Honours Class*, which latter class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend any class as Private Students. Private Students are students who attend the class without taking part in the class work.

In all the classes the students prepare certain work prescribed, and are examined orally every day. In the Honours Class the business is conducted partially by oral examination, but mainly by Lectures and Prelections delivered by the Professor. Students do *Unseens* from time to time, and may offer Latin Verse Composition.

### *Middle Class.*

The MIDDLE CLASS meets daily from 11 A.M. to 12. The subjects read are: Ovid, Tibullus, Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

Students are required to have passed the Lower Grade Standard in Latin, either by Preliminary or Leaving Certificate Examination. Students entering the Middle Latin Class for the first time in October, 1902, will be examined in elementary Composition and Translation on Monday, 20th October, at 8 A.M., in order to test their fitness for the Class.

### *Senior Class.*

The SENIOR CLASS is taught in two divisions, one meeting daily at 8 A.M. and the other at 9 A.M. All students attending the Senior Class have the option also of attending the Honours Class from 1 to 2 P.M. The subjects of study in the class at the morning hour are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Latin Prose is taught in four sections. Section II., III., and IV. meet at 1 P.M. on Wednesdays. Section I. meets on Thursdays at 11 A.M.

### *Honours Class, 1 p.m.*

In this class advanced work is read. Special regard is paid to the needs of students preparing for the Honours Degree in Classics, as well as for Classical Scholarships, the Home and Indian Civil Service Examinations, etc.

One subject is read and lectured upon on Mondays and Fridays; another subject on Tuesdays and Thursdays. On Wednesdays at 1 P.M. (or on Thursdays at 11 A.M.) Latin Prose is taught. Students are allowed to attend as Private Students, *i.e.* as listeners only, without doing any of the work of the class; but in that case they do not receive tickets qualifying for the Degree.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend, for Latin Prose only, in one of the special sections for that subject.

A course of five sessions embraces Lectures and Prelections on Plautus—Terence — Lucretius — Catullus — Propertius—Virgil—Persius—Statius—Juvenal—Martial—Tacitus.

The subjects read in the Session 1902-3 will be as follows:—

1. HONOURS CLASS, AT 1 P.M.—Plautus, *Miles Gloriosus*; Cicero, *De Oratore* I.; Statius, *Silvae*; Tacitus, *Annals* XI; Virgil, *Æn.* VII., VIII.

2. SENIOR CLASS, AT 8 or 9 A.M.—Horace, *Odes*; Cicero, *Letters* (Tyrrell's Selection), [at 9 A.M.], *Pro Murœna* [at 8 A.M.]; Horace, *Satires* II.; Ramsay's Latin Prose Composition, Vols. I. and II., Antiquities, and Prosody.

3. MIDDLE CLASS, AT 11 A.M.—Cicero; Ramsay's Latin Prose Composition, Vol. I.; Selections from Tibullus (Ramsay); Ramsay's Antiquities.

## II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

*Professors from the year* 1704.

1704. A. Dunlop, LL.D.
1746. James Moor, LL.D.
1774. John Young, M.A.
1821. Sir Daniel K. Sandford, M.A.
1838. Edmund L. Lushington, LL.D.
1875. R. C. Jebb, D.C.L., Litt.D., LL.D.
1889. G. G. A. Murray, M.A., LL.D.
1899. JOHN S. PHILLIMORE, M.A.

The Greek Class consists of two divisions, the Senior and the Middle. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

Students are placed in the Middle Class in accordance with the result of an examination held at the opening of the session. This examination will be held on Tuesday, 21st October, 1902.

Accurate knowledge of the Elements of Accidence and Syntax will be required. A piece of unseen translation will also be set.

Students who have sat for the University Preliminary Examination need not sit for this special examination.

All students should possess the following books:—*Ancient Atlas*; *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); some History or Primer of Greek Literature; *Greek Grammar*, Goodwin.

Senior students are recommended to get Gow's *Companion to the School Classics*, and Seyffert's *Dictionary of Classical Antiquities, etc.*, translated by Nettleship and Sandys; or, in place of Seyffert, Smith's two small volumes, the *Classical Dictionary* and the *Dictionary of Antiquities.*

### MIDDLE CLASS ('PROVECTIORES').

The Middle Class meets at 10 A.M. on every week-day except Saturday.

The class usually reads the easier Attic authors, including Lucian. Written exercises in translation from English into Greek and from Greek into English form part of the work.

### SENIOR CLASS.

This is the ordinary qualifying class for graduation; all members of it must have passed the Preliminary Examination in Greek on the higher standard, or an equivalent examination.

All students requiring a certificate of attendance must duly perform the work of the class; but those who do not require a certificate, or those who have not passed the Preliminary Examination, may attend as Private Students, *i.e.* without doing the work.

The class meets at 8 A.M. every week-day except Saturday.

The class hour is chiefly occupied by the Professor's lectures, but the class is liable to be examined orally or on paper every day. The work done includes the reading of Greek Authors; Greek Prose Composition; Written Exercises in translation; Greek History, Language, Antiquities, and Literature.

### HONOURS CLASS ('SENIOR AND PRIVATE').

The Honours Class, or 'Senior and Private,' meets at 12 noon every week-day except Saturday. Members of the Senior Class are at liberty to attend; they are not recommended to attempt the work of the class except in so far as it suits their convenience.

The work is similar to that done in the Senior Class, but more advanced, greater attention being given to the History of Literature, Philology, Criticism, and Philosophy. The Honours Students receive private help from the Teaching Staff in addition to the Lectures.

*Subjects for Session* 1902-3.

SENIOR CLASS.—Homer, *Iliad*, XX.-XXII.—Monro (Clarendon Press); Aeschylus, *Eumenides* (Oxford Text); Plato, *Charmides*, *Laches*, *Theages*—Burnet (Oxford Text); Holm's *History of Greece*, Vol. II. and Vol. III.; Greek Grammar and Literature; Written Translations and Prose Composition.

HONOURS CLASS.—For the lectures in this class the student should have read the books beforehand.

1. Alexandrian Poets: Apollonius Rhodius III. (Oxford Text); Callimachus *Hymns* (Wil. v. Moellendorf); Herondas, *Mimiambi*, I.-V. (Crusius, Teubner); Theocritus, *Idylls*, I., II., VI., VII., XI., XV., XXI. (Ziegler, Tübingen). 2. Thucydides,. with special reference to Book II. (Oxford Text). 3. Aristotle, Ἀθηναίων Πολιτεία: text for a course of about twenty special lectures on Athenian History by Mr. Macdonald. The lectures on Athenian History may also be attended by students who are not members of the Greek Honours Class, and will be found useful to those preparing for the Civil Service examinations. Fee for such students, £1 1s. each.

Written Translations and Prose Composition.

## III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861, and is in the gift of the Crown.

*Professors.*

1862. John Nichol, LL.D.
1889. Andrew Cecil Bradley, M.A., LL.D.
1900. W. A. RALEIGH, M.A.

N.B.—*Students are strongly advised to take the English Literature Class, as has hitherto been the custom, in the later part of their Course. Those who, for special reasons, desire to take it early should consult the Professor before taking out their class-tickets.*

ORDINARY CLASS.—During session 1902-3 the class will meet daily, except on Saturday, at 11 A.M.

The subjects to be studied are the following:—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of English Literature during the Seventeenth Century (1637-1700). The works prescribed for study are :—

Milton, *L'Allegro*, *Il Penseroso*, *Lycidas*, *Sonnets*, *Paradise Lost*, Books I.-IV. ; *Tractate of Education ;* Dryden, *MacFlecknoe*, *Absalom and Achitophel*, Part I., *Discourse on Satire ;* Sir Thomas Browne, *Religio Medici ;* Locke, *The Conduct of the Understanding* (ed. Fowler, Clarendon Press) ; *Seventeenth Century Lyrics* (ed. Saintsbury, pub. by Percival & Co.). Plays recommended for reading : Dryden, *Tyrannic Love* ; Congreve, *The Way of the World.*

II. On Tuesdays and Thursdays the following subjects will be studied :—

(1) The history of the English Language.

(2) English Composition. Text-books : *Composition Primer* and *Questions and Exercises on English Composition*, Nichol and M'Cormick.

(3) Shakespeare, *Twelfth Night*, *Othello* ; Browning, *Selections.*

Students who have already taken the Ordinary Class are permitted to attend the Lectures on Monday, Wednesday, and Friday, for a Fee of £2 2s. Such attendance cannot be reckoned towards graduation.

Honours Class.—The class meets daily at 12 noon ; on Monday, Wednesday, and Friday for the study of special authors and of selected subjects connected with the history of English Literature (1350-1900) ; on Tuesday and Thursday for the study of Anglo-Saxon and Middle English. The special authors to be studied during session 1902-3 are Chaucer and Shakespeare.

Degree Examinations.—The subjects for these in October, 1902, and April and October, 1903, will be found on p. 183. Students are advised to present themselves for their examination in the April or October immediately following their attendance of the Ordinary Class, as the subjects studied in class will be changed from year to year.

## IV. FRENCH LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1895.

*Lecturers.*

1895. Alfred Mercier, L. ès L.
1898. Charles Martin, M.A. (Paris), O.A.

I. ORDINARY CLASS.—The French Ordinary Class meets daily at 11 A.M. in the Conveyancing Class-room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The class is conducted in French, but will be partly conducted in English, during the first weeks, if found necessary.

The work of the class will comprise the following subjects:

A. *Literature.*—Mondays, Fridays, and alternate Wednesdays.

*a.* Histoire de la poèsie lyrique au xix^e^ siècle. Lamartine, V. Hugo, A. de Musset, A. de Vigny, Th. Gautier, les Parnassiens.

*b.* Explication des œuvres suivantes: Lamartine, *Premières Meditations*; V. Hugo, Morceaux choisis (Delagrave, éditeur); A. de Musset, Pages choisies (A. Colin, éditeur); A. de Vigny, *Poèsies* (Calmann Lévy, éditeur).

*c.* Ste. Beuve, Extraits des *Causeries du Lundi* (Garnier frères, éditeurs).

*d.* Leçons et interrogations sur l'histoire générale de la littérature française depuis le xvii$^e$ siècle jusqu'à nos jours.

B. *Language.*—Tuesdays, Thursdays and alternate Wednesdays.

*a.* Translations into and from French will be corrected.

*b.* History of the French Language; Historical Grammar (Text-book: A. Darmesteter, *Grammaire historique de la Langue française—Syntaxe*).

*c.* Leçons sur l'art d'écrire, compositions françaises.

*d.* Exercices pratiques de lecture et de prononciation.

C. *History.*—Conférences sur les relations politiques de la France et de la Grande-Bretagne au xix$^e$ siècle.

Students who take French for purposes of graduation must attend both classes; but students who do not intend to graduate may take the Language class alone or the Literature class alone. The fee for one class alone is £2 2s.

II. HONOURS CLASS.—This Class will meet on Tuesdays, Fridays, and alternate Wednesdays, at noon.

*a.* Reading and translation, with philological commentaries, of old French texts. Text-book: Gaston Paris, *Extraits de la Chanson de Roland*; and Montaigne, *Les Essais* (Edition classique Jeanroy, Librairie Hachette, Paris).

*b.* History of the French Language; Historical Grammar (Text-Book: A. Darmesteter, *Grammaire historique de la Langue française*).

*c.* Molière.

*d.* L'Epopée française au Moyen-Age; Le Cycle de Charlemagne.

*e.* Interrogations sur l'histoire de la Littérature française.
*f.* Traductions et Compositions françaises.

## V. GERMAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1899.

*Lecturers.*

1899. Alexander Tille, Ph.D.
1900. GEORGE P. THISTLETHWAITE, B.A., Ph.D.

I. ORDINARY CLASS.—The German Ordinary Class meets daily at 10 a.m. in the Conveyancing Class Room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either the Literature class or the Language class alone. The fee for one class is £2 2s.

A. *Language.*—Mondays, Wednesdays, and Thursdays. 1. (*a*) History of the German Language: the pre-Teutonic, Old High German, Middle High German, and New High German Periods; (*b*) Difficulties connected with New High German. 2. Translation of selected parts of the following works: Goethe, *Iphigenie*, *Götz von Berlichingen*; Schiller, *Wallenstein I.*, *Maria Stuart*, *die Räuber*; Heine, *Harzreise* (Buchheim's edition). 3. Reading of selections from 16th century writers. 4. German Prose: Essays on the class work. Text-books: Buchheim, *Materials for German Prose Composition*; Sahr, *Hans Sachs und Johann Fischart.*

B. *Literature.*—Tuesdays and Fridays. 1. (*a*) A course of Lectures on German Literature to the year 1748; (*b*) The Romantic School. 2. Interpretation of *Iphigenie*; Kleist's *Prinz von Homburg* and *Michael Kohlhaas.* Text-book: *Robertson's History of German Literature.*

Students who intend to take the Honours Course in German, or who propose to go to Germany during the long vacation, should consult the Lecturer before doing so.

II. HONOURS CLASS.—This Class will meet on Mondays, Thursdays, and alternate Wednesdays at 12.15 p.m.

1. (*a*) A course of Lectures on the first Classical Period; (*b*) Goethe and Schiller. 2. Translation of some of the works of the 16th century writers. 3. Middle High German Grammar. 4. Interpretation of Middle High German Texts; Hartmann von Aue, *Der arme Heinrich*; *Der Nibelunge Nôt.* (Avent. I.-VIII.) 5. Elements of Gothic. Text-books:

Scherer, *History of German Literature*; Sahr, *Hans Sachs und Johann Fischart*; Wright, *Middle High German Primer*; Golther, *Der Nibelunge Nôt*; Paul, *Mittelhochdeutsche Grammatik*; Jantzen, *Gotische Sprachdenkmäler.*

As the subjects for Graduation may change from year to year, Students are strongly advised to take the examination in the April or October immediately following their attendance of the Class Lectures.

### VI. ITALIAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University Court in 1902.

*Lecturer*—SIGNOR FERNANDO AGNOLETTI.

An ELEMENTARY CLASS will be held on fifty days in the winter session at an hour to suit the convenience of students. The subjects will be as follows:—Short sketch of Italian Literature; its position among the great Literatures of the world. The Language; its origin and fundamental character; theories as to its unity; its fortune, past and present. Outline of Italian Grammar. Reading of modern and contemporary prose.

The ORDINARY CLASS will meet daily at 3 P.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either the Literature division or the Language division alone. The fee for either is £2 2s.

*Literature.* Tuesdays, Fridays, and alternate Wednesdays. Rise of the Literature of the Sixteenth Century—Machiavelli and History—The Literature of the Courts—Baldassare Castiglione—Ariosto—Minor Poets—Popular Literature—Artists and Authors—The Theatre.

*Language.* Mondays, Thursdays, and alternate Wednesdays. Outline of the History of the Italian Language—Syntax—Masters of Style—Exercises.

The classes are open to both men and women.

### VII. HEBREW.

(See under Faculty of Theology, p. 128.)

### VIII. ARABIC.

(See under Faculty of Theology, p. 130.)

## *B.* MENTAL PHILOSOPHY.

### I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

*Professors from the year* 1727.

1727. John Loudon.
1751. Adam Smith, LL.D.
1752. James Clow.
1787[1]. George Jardine, M.A.
1827[2]. Robert Buchanan, LL.D.
1864. John Veitch, LL.D.
1895. Robert Adamson, LL.D.
1902. **Robert Latta**, D.Phil.

The Logic Class meets daily, on five days of the week, from 9 to 10 A.M.

The Course of Lectures includes the following subjects:—

I. Logic.—(A) Introduction on the Province and General Problems of Logic. (B) Pure Logic, including the treatment of Fallacy. (C) Theory of Scientific Method.

II. Psychology.—A general account of the composition and development of Mind, with a more detailed consideration of the process of knowledge.

III. Metaphysics.—An introduction, historical and critical, to the general questions of Modern Philosophy. The historical reference will concern mainly the doctrines of Descartes, Locke, Berkeley, and Hume.

Students before entering the class are recommended to read some elementary work on Formal Logic, such as Jevons' *Elementary Lessons in Logic* or Fowler's *Deductive Logic*.

An advanced class is held in which lectures are given on some of the subjects prescribed for Honours in Mental Philosophy. During next session this class will meet at 1 p.m., on four or five days weekly.

Students before entering the honours class are recommended to read (1) the sections on pre-Kantian philosophy in any history of Modern Philosophy, *e.g.* Höffding, or Falckenberg, or Erdmann (all of which have been translated into English), and (2) Some history of Greek Philosophy (period before Plato), as Zeller or Burnet or Erdmann.

## II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

*Professors from the year* 1727.

1727. Gerschom Carmichael.
1730. F. Hutcheson, LL.D.
1746. Thomas Craigie.
1752. Adam Smith, LL.D.
1764. Thomas Reid, D.D.
1796[3]. Archd. Arthur, M.A.
1797. James Mylne, M.A.
1839. William Fleming, D.D.
1866. Edward Caird, D.C.L., LL.D.
1894. **Henry Jones**, M.A., LL.D.

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[1] Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

[2] Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

[3] Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

The Moral Philosophy Class meets at 8 A.M. on five days of the week.

In this class Moral Philosophy is treated both historically and systematically. In connection with the systematic part of the course lectures are given on the metaphysical and psychological implications of Morals, and in connection with the historical part the development of Morals is traced, and an account given of some of the main ethical theories of ancient and modern times.

The work of the class will further comprise the study of *Plato's Republic* (translation by Davies and Vaughan), and students are recommended to read in conjunction therewith Bosanquet's *Companion to Plato's Republic*, or Nettleship's *Philosophical Lectures and Remains*, Vol. II.

In the Higher Moral Philosophy Class the Professor will lecture on some of the subjects prescribed for the Degree with Honours. During next session this class will meet at 12 noon.

## POLITICAL PHILOSOPHY.

*Lecturer*—ROBERT A. DUFF, M.A.

The Political Philosophy Class meets three days a week during the Summer Session. It is intended to meet the requirements of students preparing for the Degree of M.A. with Honours in *Mental Philosophy*, or in *Economic Science*, and for the Examinations of the Civil Service in Political Science.

The Course of Lectures will include a discussion of the main theories as to the nature and functions of the State; a critical account of the growth of institutions; and an analysis of the moral principles underlying political rights and obligations.

Students will be expected to pursue during the Session a course of reading of prescribed portions of books dealing with the subjects treated of in the Lectures, and, in particular, to acquire accurate knowledge of Aristotle's *Politics*, Green's *Principles of Political Obligation*, and Sidgwick's *Elements of Politics*. Essays and exercises will be prescribed from time to time.

In addition to this Summer Class, Lectures will be delivered during the Winter Session in connection with the Honours Course in Moral Philosophy.

The days and hours of these Lectures will be suited to the requirements of the students who wish to attend.

## III. POLITICAL ECONOMY.

This Chair (called the Adam Smith Chair of Political Economy) was founded by Ordinance No. 149 of the Universities Commission (1889) of date 25th February, 1896, with an endowment of fifteen thousand pounds sterling, given by Mr. Andrew Stewart, merchant, Glasgow. The patronage is vested in the University Court, conjointly with one representative from time to time elected by the Merchants' House of the City of Glasgow, one representative from time to time elected by the Trades' House of the City of Glasgow, and one representative from time to time elected by the Chamber of Commerce of the City of Glasgow. The professor is a professor in the Faculties of Arts and Law.

Before the founding of the Chair, Political Economy was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

*Professor.*

1896. William Smart, M.A., D.Phil., LL.D.

The Political Economy Ordinary Class meets at 2 p.m.

The Lectures, which are partly doctrinal, partly historical, are intended to accompany the study of prescribed books. The first part of the course will deal with Demand and Consumption: the Agents of Production—Land, Labour, Capital, and Organization: Theory of the Equilibrium of Demand and Supply: Value, or Distribution and Exchange: Trade Unions. (Text-books: Marshall, *Elements of Economics of Industry*, third edition, 1899; Smart, *The Distribution of Income.*) Thereafter Money, Credit and Banking, and International Trade will be taken up. (Text-books: Gide, *Political Economy*, Book II.; Bastable, *Theory of International Trade.*) For preparatory reading students are recommended to Gide's *Political Economy* (Isbister, London, or sixth French edition, 1898, Larose, Paris).

Honours Class. The Class meets at 3 p.m. Subjects: Taxation and Public Finance, with some study of the Theory of the State; Economic History of the Seventeenth and Eighteenth Centuries; Economic Theory from Adam Smith to Mill. Special study will be made of current economic problems as they present themselves.

Students are recommended to confine themselves for preparatory reading to mastering Marshall's *Principles of Economics*, Vol. I., Books V. and VI., fourth edition, 1898.

## IV. EDUCATION.

### THEORY, ART, AND HISTORY OF EDUCATION.

This Lectureship was instituted by the University in 1894.

*Lecturers.*

1894. David Ross, M.A., B.Sc., LL.D.
1899. John Adams, M.A., B.Sc.

The Education Class meets daily at 3.30 P.M. The course consists of one hundred lectures qualifying for graduation in Arts.

A. Theory.—The nature and limits of Education; its logical, psychological, and ethical bases; its principles.

B. Art.—Communication between minds; language; illustration; method; sequence of studies; form and matter.

C. History.—Conspectus of educational systems; development of educational ideals.

Books for class work.—Davidson's *Aristotle and the Ancient Educational Ideals*; *Herbartian Psychology applied to Education* (Isbister); Locke's *Thoughts on Education*; Herbert Spencer's *Education*; Ascham's *Scholemaster*, Book I.

## V. PHILOSOPHY OF LAW.

(See under Faculty of Law, p. 121.)

## *C.* SCIENCE.

## I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

*Professors from the year* 1691.

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|---|---|
| 1691. George Sinclair. | 1796[1]. James Millar, M.A. |
| 1699. Robert Sinclair, M.D. | 1832. James Thomson, LL.D. |
| 1711. Robert Simson, M.D. | 1849. Hugh Blackburn, LL.D. |
| 1761. James Williamson, D.D. | 1879. William Jack, LL.D. |

*Ordinary Class.*

Subjects: *Euclid*, Books IV., VI., and XI. 1—21, more advanced *Algebra*, and the Elements of *Transversals* and of *Analytical Geometry of the straight line and circle*, *Trigonometry*, including solution of triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1.

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[1] Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

### *Intermediate Honours Class.*

Subjects: *Plane Trigonometry, Analytical Conics, Differential and Elements of Integral Calculus.* There will be two divisions of the Class, one meeting from 10 to 11, and one meeting from 11 to 12, daily, except on Saturdays.

### *Advanced Honours Class.*

Subjects: *Integral Calculus, Spherical Trigonometry, Geometry of Three Dimensions, Differential Equations.* The class meets at 11-12 on Mondays, Wednesdays, and Fridays.

*In the case of students who began their course before* 1*st October*, 1892, attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Ordinary or the Intermediate Honours Class, is required for the degree of M.A., "unless the candidate at the time of his entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on an Honours Class for one session is sufficient.

For the "Lorimer," the "Metcalfe," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

## II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

### *Professors from the year* 1727.

1727. Robert Dick.
1751. Robert Dick, M.D.
1757. John Anderson, M.A.
1796. James Brown, LL.D.
1803. W. Meikleham, LL.D.
1846. Lord Kelvin, D.C.L., LL.D., F.R.S.
1899. ANDREW GRAY, LL.D., F.R.S.

### *University Assistant.*

Walter Stewart, M.A., D.Sc.

### *Arnott and Thomson Demonstrator.*

James W. Peck, M.A.

I. ORDINARY CLASS.—The Ordinary Natural Philosophy Class meets daily at 9 A.M. The main divisions of the course are Elementary Dynamics and Properties of Matter, Sound, Heat, Light, Magnetism and Electricity. The lectures are fully illustrated by experiments. A detailed programme of the course will be published before the beginning of the session and supplied to students on application at the Physical Laboratory.

*Tutorial Class.*—Students attending the Ordinary Class are recommended also to attend the Tutorial Class, which meets on Tuesdays and Thursdays at 11 A.M. The work done in this class consists largely of numerical and other examples dealing with the subject-matter of the Ordinary Class lectures.

II. HIGHER MATHEMATICAL CLASS, A.—This class meets three times a week, on Mondays, Wednesdays, and Fridays, at 12 noon, and is suitable for Honours Students and students who are proceeding to the Degree of B.Sc. in Pure Science.[1]

The work comprises the Mathematical Theories of selected special branches of Natural Philosophy. The subjects treated in next session will be Higher Dynamics, and one or more of the following: Thermodynamics, Wave Theory of Light, Conduction of Heat.

III. HIGHER MATHEMATICAL CLASS, B.—This class deals mainly with Dynamics, which will be treated in such detail and with such reference to practical problems as may render it suitable for Students of Engineering. A knowledge of Elementary Differential and Integral Calculus only will be assumed in this class, and students who desire to join it are strongly advised to begin the study of this branch of mathematics at least in the preceding summer. Professor Gibson's Elementary Treatise on the Calculus will be found useful in connection with this class. The class will meet on Mondays, Tuesdays, and Thursdays at 12 noon throughout the session. Attendance upon it will qualify for the Degree of B.Sc. in Engineering Science.

IV. ELECTRICITY PURE AND APPLIED.—This class will meet at 12 noon on Wednesdays and Fridays, during the Winter Session, if a sufficient number of students present themselves. The course is one of the options for the Degree of B.Sc. in Engineering Science.

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[1] The Course in Natural Philosophy for the Final Examination for the Degree of B.Sc. in Pure Science consists of the Higher Mathematical Class (II., A) and the Laboratory Course (B).

It is very desirable that students attending this class should either be attending or have already attended a course of Practical Physics in the Physical Laboratory.

V. PHYSICAL LABORATORY.—Experimental Courses will be given in the Physical Laboratory from 10 to 4 daily throughout the Winter and Summer Sessions.

*A. Ordinary Course.*—This is the qualifying course for the Science Degrees. It is suitable for ordinary students of Natural Philosophy, and is recommended to all whose arrangements will permit of their taking a laboratory course. Attendance may be made up of three months in the Winter Session together with the Summer Session. A student may qualify for the Degree of B.Sc. in Engineering Science by attendance in the Summer Session only.

*B. Advanced Course.*—A series of advanced exercises in Heat, Light, and Electricity has been arranged, and will be carried on during the Winter Session.[1]

A syllabus of Courses *A* and *B* may be had on application at the Laboratory; arrangements as to hours of attendance will be made at the beginning of each session.

*C. Research Work.*—Research work is carried on daily under the superintendence of the Professor, his Official Assistant, and the Arnott and Thomson Demonstrator.

Books recommended: Ordinary Class (I.).—Watson's *Text-Book of Physics* and Bottomley's *Mathematical Tables.* For reference, Thomson and Tait's *Elements of Natural Philosophy*; Gray's *Treatise on Physics,* Part I. Higher Mathematical Class (II.).—Gray's *Treatise on Physics,* Part I.; and Treatises recommended in connection with special subjects treated. Higher Mathematical Class (III). — Gray's *Treatise on Physics,* Part I. Electricity Pure and Applied (IV.). — Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise); Maclean's *Physical Units.* Physical Laboratory (V.).—Stewart and Gee's *Elementary Practical Physics*; Glazebrook and Shaw's *Practical Physics*; Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise). For reference, Kohlrausch's *Physical Measurements*; Wiedemann's *Elektricität*; Gray's *Theory and Practice of Absolute Measurements in Electricity and Magnetism.*

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[1] See note on preceding page.

### PHYSICS.

The lectures of this course are designed primarily for students proceeding to the First Professional Examination in Medicine. They are delivered daily at 11 A.M. during the Summer Session in the Natural Philosophy Department, and embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases, and the rudiments of Sound, Light, Heat, Magnetism, and Electricity. A detailed programme of the subjects of the course, containing the titles of books recommended for use by students and of works which may be consulted, is given to each student at the beginning of the course.

Two written examinations are held during the session, and the Class meets for a tutorial hour weekly in which additional instruction is given by oral examination and by exercises on the previous lectures.

*For the Arnott Prize in General Physics*, see Index.

### III. ASTRONOMY.

(See under Faculty of Science, page 85.)

### IV. CHEMISTRY.

(See under Faculty of Medicine, page 95.)

### V. ZOOLOGY.

(See Natural History, under Faculty of Medicine, page 95.)

### VI. BOTANY.

(See under Faculty of Medicine, page 94.)

## *D.* HISTORY AND LAW.

### I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

*Professors.*

1894. Richard Lodge, M.A.
1899. Dudley J. Medley, M.A.

Ordinary Class.—The Class meets daily at 10 A.M., except on Saturdays. The course consists of one hundred lectures qualifying for graduation.

In session 1902-3 the Professor will lecture on the

History of England and Scotland to 1880. Any recognised text-book may be taken by the student as the basis of his study. The Professor would, however, especially recommend Green, *Short History of the English People*, together with *either* Powell and Tout, *History of England*, *or* Hassall, *Class-Book of English History* (Rivington's) and Hume Brown, *History of Scotland.* Those who are taking the class with a view to Honours in Economics should add G. Townshend Warner, *Landmarks in English Industrial History* (Blackie). Before joining this class students would do well to make a preliminary study of the geography of the British Isles and Empire, and to practise themselves in the drawing of outline maps.

Honours Class.—This Class will meet on Mondays, Wednesdays, and Fridays, at 11 A.M. During the next two sessions the Professor proposes to lecture on the following periods of Foreign History:—Session 1902-3: 476-1272, with especial reference to the period 800-1272. Session 1903-4: 1272-1648, with especial reference to the period 1453-1648.

Students who intend to join this class with a view to Honours in History during the Session 1902-3, would do well to study the geography of continental Europe, and, if possible, to acquire some facility in reading ordinary narrative French. They are also recommended to read the following books—Bryce, *Holy Roman Empire*; Church, *Beginning of the Middle Ages.* For a more detailed list of books, application should be made during the vacation, either personally or by letter, to the Professor.

Note.—*The classes recognized as Honours Classes in the Group of* History *are the Honours Classes held by the Professor of History and by the Lecturer in Constitutional Law and History.*

## II. CONSTITUTIONAL LAW AND HISTORY.

*Lecturer.*

1894. William S. M'Kechnie, M.A., LL.B., D.Phil.

Ordinary Class.—This class now extends to a hundred meetings, and qualifies as a full course for graduation both for the ordinary M.A. and for Honours in History. (For subjects of study, text-books, etc., see under Faculty of Law, page 121.)

HONOURS CLASS.—In the winter session of 1902-3, in the event of any candidates for Honours in History presenting themselves, a course of fifty lectures (qualifying *pro tanto* for graduation with Honours) will be given on the early Constitutional History of England till 1295. The class text-book will be Stubbs, *Select Charters*. Before joining the class students are advised to read Medley, *Constitutional History*, and the following works are suggested for the use of students before or during the session:—Stubbs, *History*; Pollock and Maitland, *History of English Law*, and Maitland, *Domesday Book*. The class meets on Mondays, Wednesdays, and Fridays at 1 P.M.

### III. ROMAN LAW.

(See under Faculty of Law, page 119.)

## II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, and embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History (including Geology and Zoology), Botany, Anatomy, Physiology, Civil Engineering and Mechanics, and Naval Architecture. In this Faculty there are also classes in Electricity—Pure and Applied, Electrical Engineering, and Metallurgical Chemistry.

### I. MATHEMATICS.

(See under Faculty of Arts, page 79.)

### II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 80.)

### III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities Commission in 1893 from the Faculty of Arts to the newly instituted Faculty of Science.

*Professors.*

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|---|---|
| 1760. Alex. Wilson, LL.D. | 1803. James Cooper, D.D. |
| 1784[1]. Patrick Wilson, LL.D. | 1836. John P. Nichol, LL.D. |
| 1799. W. Meikleham, LL.D. | 1859. R. Grant, LL.D., F.R.S. |

1893. LUDWIG BECKER, Ph.D., F.R.A.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the vicinity of the University buildings.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Trustees of the Bellahouston Bequest Fund recently made the generous grant of eleven hundred pounds towards the Chair of Astronomy.

The Professor of Astronomy who is chiefly occupied in directing the operations of the Observatory delivers a Course of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

*First Class.*

Subjects : Elementary Mathematical Astronomy—The celestial sphere, description and theory of instruments, determination of latitude and time. Spherical Astronomy—Precession, Nutation, Aberration, Figure of the Earth, Deductions from Kepler's Laws.

The class meets at 3 P.M. on Mondays, Wednesdays, and during the first half of the session on Fridays. Practical Demonstrations at the Observatory.

Books recommended for general reading:—Barlow and Bryan, *Elementary Mathematical Astronomy* (Univ. Corr. Coll. Tutorial Series, London); Young, *Text-book of General Astronomy.*

*Second Class.*

Subject : Mechanics of the Heavens.

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[1] Dr. P. Wilson was assistant to his father from 5th June, 1782.

The students ought to be well prepared on the subjects of the Intermediate Honours Mathematical Class.

The class meets at 3 P.M. on Tuesdays and Thursdays, and during the second half of the session on Fridays.

Attendance on the two classes, either in the same session or in different sessions, counts as a full course for the Degree of M.A.; the first and second classes, which may be taken in one session, with practical work at the Observatory, are a full course for the Degree of B.Sc.

## IV. CHEMISTRY.

(See under Faculty of Medicine, page 95.)

### METALLURGICAL CHEMISTRY.

This Lectureship was instituted by the University in 1899.

*Lecturer.*

William Carrick Anderson, M.A., D.Sc.

Two independent courses of lectures are given in each year, the first or "*A*" Course from October till December, and the second or "*B*" Course from April till June. Each class meets three days a week.

Class "*A*." The lectures deal with the chemical properties, preparation, and uses of fuels, solid, liquid, and gaseous; the composition of slags and refractory materials, and the methods employed for extraction of the principal industrial metals with special reference to the chemical principles involved.

Class "*B*." This course treats of the principles of thermochemistry, calorimetry, and calculations of calorific power of fuels; the preparation and properties of metallic alloys, and the influence of impurities on industrial metals.

*Practical Courses.*—The Chemical Department is equipped with gas-fired crucible and muffle furnaces, and practical instruction in assaying and general metallurgical work is given during both Winter and Summer Sessions.

## V. NATURAL HISTORY.

(See under Faculty of Medicine, page 95.)

## VI. BOTANY.

(See under Faculty of Medicine, page 94.)

## VII. ANATOMY.

(See under Faculty of Medicine, page 97.)

## VIII. PHYSIOLOGY.

(See under Faculty of Medicine, page 99.)

## IX. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment[1] by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.[2] The University Court instituted a lectureship on Electrical Engineering in 1898, and one on Engineering Drawing and Design in 1901.

*Professors.*

1840. Lewis D. B. Gordon, C.E.
1855. William J. Macquorn Rankine, C.E., LL.D.
1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
1889. Archibald Barr, D.Sc., M.Inst.C.E., M.I.Mech.E.

*Lecturer on Electrical Engineering.*

James Blacklock Henderson, D.Sc.

*Lecturer on Engineering Drawing and Design.*

Henry Bamford, M.Sc., A.M.Inst.C.E.

*Young Assistant.*

William Alexander.

*Demonstrators.*

William Guthrie Strang, B.Sc.
John S. Nicholson, B.Sc.

The courses in Engineering extend throughout the winter session, that is, from 16th October till 26th March. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Design, Laboratory Practice, and visits to Engineering Works and Manufactories.

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[1] The annual income of a sum of £5000.
[2] The salary for the Young Assistantship thus founded is now £126.

These courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

Five Courses of Lectures are arranged for, four of which are delivered in each session.

CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Lectures: Mondays, Wednesdays, and Fridays, at 9 A.M. Tutorial and Exercise Meetings: Tuesdays and Thursdays, at 9 A.M.—Subjects:—Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; Graphics, Steam, Gas, and Oil Engines, and other Prime Movers; and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—Mondays, Wednesdays, and Fridays, at 8 A.M. Subjects:—Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth Works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

CLASS III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.—This class will not be held during the present session. It is held in alternate years with Class II., on

Mondays, Wednesdays, and Fridays at 8 A.M.—The Lectures treat of the Sources of Energy; Fuels; the Theory of Steam and Gas and other Heat Engines; the structural details of Boilers and Engines; the Mechanics of Machinery; the Elements of Machine Design; the Transmission of Power; and Friction and Lubrication in Machines. Attendance on this class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Applied Mechanics.

CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.—Daily, except Saturday, at 9 A.M. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, etc.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

ELECTRICAL ENGINEERING.—Tuesdays, Thursdays, and Saturdays at 8 A.M. Subjects:—Units, Magnetic Circuits, Design of Electro-magnets, Electro-magnetic Induction; Dynamos and Motors, bipolar and multipolar armatures, commutation, armature reaction, characteristics, losses, efficiencies, regulation and design; Alternating currents, measurement of power, graphical methods of treatment, armatures of alternators, losses, characteristics, efficiency and design of alternators and transformers; Polyphase currents and plant; System of distribution, etc. Attendance on this class must be preceded by a course in the Physical Laboratory.

ENGINEERING DRAWING AND DESIGN.—The drawing class-room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing; Lectures and Practice in Design of Structures, Descriptive Geometry, Graphical Statics, and the Kinematics of machinery, and the performance of graphical work and calculations in connection with the lecture courses.

ENGINEERING LABORATORIES.—The James Watt Engineering Laboratories, which have been erected and equipped at a total cost of about £40,000, are now complete. A separate description of the Laboratories will be published. The equipment includes appliances for calorimetric tests of fuels, and for experiments on the properties of steam; steam boilers, steam, gas, oil, and hot-air engines; a refrigerating plant; 100-ton and 10-ton testing machines arranged for tests in tension, compression, bending, and torsion, and fitted with autographic stress and strain recorders; cement testing appliances; apparatus for experiments on the flow of water through orifices and pipes, friction and lubrication of machines; and apparatus for other investigations bearing upon Engineering Science and Practice.

The Electrical Engineering Laboratory is equipped with continuous current dynamos and motors, with single and polyphase alternators and motors, and with testing appliances in connection with electric lighting and electrical transmission of power.

The Laboratories are open daily; the hours of attendance are arranged with the individual students.

For the purposes of Ordinance No. 23, Section IX. (see page 200), Classes I. and II., I. and III., or Electrical Engineering and either I. or III., along with Laboratory practice, count as a whole course; Class IV., together with Laboratory practice, counts as a whole course. Candidates taking the second option under Section IX., *i.e.* candidates for the Degree of B.Sc. on the side of Naval Architecture, are required to take Class IV. together with Laboratory practice.

*Recommendation.*—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

*As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.*

*As to the Certificate of Proficiency in Engineering Science, see Index.*

*As to the Muir Bursaries, the Metcalfe Bursaries, the Dr. Strang Bursaries, the George Young Bursary, the Walker Prizes and the George Harvey Prize, and the James Watt Scholarship, in the Department of Civil Engineering and Mechanics, see Index.*

## X. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

*Professors.*

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.
1891. John Harvard Biles, LL.D.

The courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and Marine Engine Design; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 12 noon, or at any other hour that may be found convenient. The classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 a.m. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 p.m. to 5 p.m., or at any hour that may be found convenient. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 p.m. to 5 p.m., or at any other hour that may be found convenient.

*As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.*

*As to the Lloyd's Register Scholarship, the Elder Bursaries, and the Kirk Memorial Prize, see Index.*

## III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Botany, Natural History, Physics, Chemistry, Anatomy, Embryology, Physiology, Materia Medica, Pathology, Forensic Medicine, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, Midwifery, Insanity, Diseases of the Eye, Diseases of the Ear, Diseases of the Throat and Nose, Diseases of the Skin, and Diseases of Children.

### ORDER OF STUDY RECOMMENDED.

*It is advantageous that the Student should commence his studies in Summer.*

*Candidates are advised not to go up for examination in Chemistry and Zoology till the Autumn before the Second Winter.*

1ST SUMMER.—Physics and Botany. Practical Zoology may also be taken.

1ST WINTER.—Chemistry, Junior Anatomy, Zoology. Practical Chemistry in Laboratory may also be taken if desired.

2ND SUMMER.—Practical Anatomy. Practical Chemistry, and also Practical Zoology, may be taken if not already attended.

2ND WINTER.—Senior Anatomy, Physiology and Practical Anatomy.

3RD SUMMER.—Practical Anatomy, Practical Physiology, Practical Pharmacy, Clinical Surgery and Hospital.

3RD WINTER.—Surgery, Materia Medica, Clinical Surgery, Hospital and Dispensary Practice.

4TH SUMMER.—Practical Pathology, Medical Jurisprudence and Public Health, Operative Surgery, Clinical Medicine and Hospital.

4TH WINTER.—Pathology, Practice of Medicine and Midwifery. Also Clinical Class and Hospital.

5TH SUMMER.—Insanity, Diseases of Women, the Skin, the Eye, the Ear, the Throat and Nose, Vaccination, Hospital, Fevers.

5TH WINTER.—Hospital, Midwifery Practice, and Specialities of Practice not previously attended to.

**A.** The subjects of the *First Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

## I. BOTANY.

The subject of Botany was from 1718 conjoined with Anatomy. The combination being found unsuitable, a separate Lectureship on Botany was instituted, and ultimately, in 1818, the Professorship was founded. The appointment is vested in the Crown. (See p. 163, as to Botanic Garden.)

### *Professors.*

1818. Robert Graham, M.D.
1820. Sir W. J. Hooker, LL.D.
1841. John H. Balfour, M.D.
1845. G. A. Walker-Arnott, LL.D.
1868. Alexander Dickson, M.D.
1879. I. B. Balfour, M.D., D.Sc.
1885. Frederick O. Bower, Sc.D., F.R.S.

Lectures are given at the University every Tuesday, Wednesday, Thursday, Friday, and Saturday at 8 A.M., during the summer session. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the field, or microscopic demonstrations are given in the Laboratory.

Demonstrations on fresh specimens are given in the Botanic Garden or at the University during the latter part of the session.

The Botanical Laboratory at the University is open daily from 9 A.M. to 4 P.M. from the end of April to the middle of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of Advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, will be given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.

*For the "Dobbie Smith" Gold Medal, see under "Prizes."*

## II. NATURAL HISTORY.

This Professorship was founded by George III. in 1807. The Professor is appointed by the Crown. In 1876 the late Mrs. Honyman Gillespie of Torbanehill endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

*Professors.*

1807. Lockhart Muirhead, LL.D.
1829. Wm. Couper, M.D.
1857. Henry D. Rogers, LL.D.
1866. [1]JOHN YOUNG, M.D.

*Honyman Gillespie Lecturer*—1876. JOHN YOUNG, M.D.

The arrangements for session 1901-2 were as follows:—

1. A course of Lectures on Zoology daily at 9 A.M., beginning in October.

2. A course of Lectures on Geology beginning in January.

3. A course of Laboratory Demonstrations and Lectures for senior students in summer. Laboratory hours 10 A.M. till 1 P.M.

Practical Instruction in Zoology in the Zoological Laboratory during the summer and early part of the winter sessions by the Professor, with the assistance of James Rankin, B.Sc., M.B., C.M.

*N.B.*—The Professional Examinations in October, 1902, will have special reference to the *Myriapoda*, *Arachnida*, *Amphibia*; those in March, 1903, to the *Annelida*, *Pisces*.

*For the Millport Marine Biological Station, see p.* 164.

## III. PHYSICS.

(See under Natural Philosophy in Faculty of Arts, p. 83.)

## IV. CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

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[1] Professor Young has intimated his intention to resign before the beginning of session 1902-3.

*Lecturers.*

1747. William Cullen, M.D.
1756. Joseph Black, M.D.
1766. John Robison, LL.D.
1769. William Irvine, M.D.
1787. Thomas C. Hope, M.D.
1791. Robert Cleghorn, M.D.

*Professors.*

1818. Thomas Thomson, M.D.
1852. Thomas Anderson, M.D.
1874. John Ferguson, M.A., LL.D., F.S.A.

*Assistants.*

William C. Anderson, M.A., D.Sc.
Matthew A. Parker, B.Sc.
James Roberts, F.C.S.

Systematic Chemistry.—The Lectures of this course are delivered daily at 10 A.M. during the winter session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and in the latter part of the course the principles of Organic Chemistry and the more common compounds of Carbon are dealt with.

*Tutorial Classes.*—In addition to attendance at the Lectures, the students are required to attend the Tutorial Classes, each of which meets twice a week. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.

Higher Courses.—In addition to the lectures on Systematic Chemistry short courses on different branches of Applied Chemistry are given, and to meet the requirements of Ordinance No. 12, Section IX. (4) (see p. 197), a higher course will be delivered as required. It will deal with the Rare Elements, Theories of Chemistry, and the History of Chemistry.

Analytical Chemistry.—The Laboratory is open daily during the winter and summer session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently, and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students are instructed in quantitative analysis and in the preparation of organic compounds, with a view to qualifying for the higher standard necessary for the Final Science Examination. Opportunity is also afforded for graduates and other advanced students engaging in original investigation. For particulars as to the appointment of Research Students and Fellows, see page 144.

Organic Chemistry.—Two courses of Lectures are given :— 1. An Elementary Course during the latter part of the winter session. 2. An Advanced Course during the summer session. In the first course—which comprises about 25 lectures—the subject is treated as follows :—Introductory, Methods of Analysis, Deduction of Formulæ, Classification of Organic Compounds, and the Chemistry of the following classes of substances —Aliphatic hydrocarbons, halogen derivatives, alcohols, ethers, esters, aldehydes and ketones, acids, etc., and a few of the more common aromatic compounds.

In the second course—in which 35-40 lectures are given—the chemistry of the aliphatic compounds is summarised, and attention is given to points of interest which are not touched on in the first course. The chemistry of the carbo-cyclic and hetero-cyclic compounds is treated fully, and relations existing between physical properties and chemical constitution are considered.

Practical instruction is given in the Laboratory in the methods of preparation, analysis, etc., of organic compounds.

### METALLURGICAL CHEMISTRY.

(See Faculty of Science, p. 87.)

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**B.** The subjects of the *Second Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

### I. ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and University jointly. After 1818 the province of the Chair was restricted to Anatomy.

*Professors.*

1720. Thomas Brisbane, M.D.
1742. Robert Hamilton, M.D.
1756. Joseph Black, M.D.
1757. Thos. Hamilton, M.D.
1781. William Hamilton, M.D.
1790. James Jeffray, M.D.
1848. Allen Thomson, M.D., LL.D., F.R.S.
1877. John Cleland, M.D., LL.D., D.Sc., F.R.S.

*University Assistant.*
James F. Gemmill, M.A., M.D., C.M.
*Demonstrators.*
William K. Hutton, M.A., M.B., C.M.
Archibald N. M'Lellan, M.B., C.M.
Samuel J. Cameron, M.B., C.M.

In the WINTER SESSION Anatomical Instruction is conducted in the following courses, viz.:—

1. ELEMENTARY DESCRIPTIVE LECTURES.—This class meets on five days weekly from 1 to 2 o'clock. The Lectures comprehend a full systematic description of the Bones, Joints, Muscles and Muscular Organs, and a general view of the Nervous System and Viscera.

2. ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.—This class meets on six days weekly from 11 to 12 o'clock, viz., on five days for Lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain and Organs of Sense.

3. PRACTICAL ANATOMY.—This class is under the superintendence of the Professor and Demonstrators. The dissecting room is open from 9 A.M. to 4.45 P.M. daily, except on Saturdays, when it is closed at mid-day.

*Text-books.*—Cleland and Mackay's *Human Anatomy*; Cleland and Mackay's *Directory for Dissection.* Also, Spalteholz, *Handatlas of Human Anatomy* will be found a valuable and convenient auxiliary.

In the SUMMER SESSION the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily.

## EMBRYOLOGY.

A Lectureship on Embryology was instituted by the University Court in 1894, but the first Lecturer, Dr. John Yule Mackay, having resigned before the beginning of the second session, temporary arrangements were made for carrying on the work of the class in 1895 and 1896.

*Lecturers.*
1894. John Yule Mackay, M.D.
1897. JAMES F. GEMMILL, M.A., M.D.

The *Systematic Class* meets in the Anatomy Class-room at 11 A.M. on Mondays, Tuesdays, Thursdays, and Fridays of the summer session.

A *Practical Class* in Embryology is also held in the Summer Session. The course will include:—

I. Instruction in the methods of Embryological research.

II. Practical Study of:—(*a*) Maturation, fertilisation, segmentation etc. (Echinoderm material most suitable). (*b*) The development of one or more of the following types,—(1) Cartilaginous fish, (2) Amphibian, (3) Chick. (*c*) Mammalian development with reference to the foetal membranes, placenta and uterus, especially in the human subject.

III. Such advanced lectures as may from time to time be necessary in order to illustrate the bearing of any part of the practical work on Comparative Embryology.

Competent workers will be given facilities for carrying out special researches.

The Laboratory will be open from 9 A.M. till 4 P.M. except on Saturdays when the hour of closing is 12 noon.

## II. PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic. It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

*Professors.*

1839. Andrew Buchanan, M.D.
1876. JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S., F.R.S.E., F.R.C.P.E.

*Muirhead Demonstrator.*

William Brodie Brodie, M.D., F.R.S.E.

*Second Assistant.*

John H. Teacher, M.A., M.B., C.M.

### SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the winter session. They are devoted to an exposition of the main principles and facts of the Physiology of Man.

1. *General Physiology*, which includes a description of the

functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Examinations are held during the session.

### PRACTICAL PHYSIOLOGY.

During the *summer session* Practical Instruction is given in the Laboratory by the Professor, the Muirhead Demonstrator, and Assistants, to classes of not more than thirty-five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily, except Saturday. This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. Students will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures.

### ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

This Class is intended to meet the requirements of candidates for the Degree of B.Sc. It will meet during the winter session at a suitable hour, on two or three days weekly, and the course will comprise fifty meetings. Students will be taught (*a*) the more advanced methods of Physiological Chemistry, (*b*) special methods in advanced Histology, and (*c*) the use of physiological apparatus, the experimental investigation of the properties of muscle and nerve, the physics of the circulation, and the physiology of the senses. This course is wholly practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, and to lead the student into the higher departments of physiological science.

### *The Laboratory.*

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of Lectures on Physiology.

### *Text-books.*

For the Systematic and Practical Classes—*Text-book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology, see p. 133.

## III. MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

### *Lecturers.*

| | |
|---|---|
| 1766. William Irvine, M.D. | 1788. Robert Cleghorn, M.D. |
| 1787. Thomas C. Hope, M.D. | 1791. Richard Millar, M.D. |

### *Professors.*

| | |
|---|---|
| 1831. Richard Millar, M.D. | 1865. John B. Cowan, M.D. |
| 1834. John Couper, M.D. | 1880. Matthew Charteris, M.D. |
| 1855. John A. Easton, M.D. | 1897. **Ralph Stockman**, M.D. |

In the courses of instruction and in the scheme of professional examinations prescribed by Ordinance No. 14, the subjects included in the province of this chair comprise the two branches of Materia Medica and Therapeutics. In the summer course of Practical Pharmacy, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required. Instruction is given in compounding official preparations, in writing prescriptions, and in dispensing, supplemented by demonstrations of the more important substances in the British Pharmacopœia. The winter course is devoted to Pharmacology and Therapeutics, the official drugs of the British Pharmacopœia being systematically considered in relation to their actions and applications in disease. In addition, lectures are given on the therapeutical aspects of Dietetics, Mineral Waters and Baths, Climate, Electricity, Massage, etc.

*Text-books.*—The manuals on *Materia Medica and Therapeutics* by Dr. Hale White, Dr. Mitchell Bruce, Dr. Whitla, or Dr. Lauder Brunton; *Practice of Medicine*, by Dr. M. Charteris; *Dictionary of Treatment*, by Dr. Whitla. More advanced books are: *Therapeutics*, by Dr. H. C. Wood; *Text-book of Pharmacology and Therapeutics*, edited by Dr. Hall White; and *Text-book of Pharmacology*, by Dr. A. R. Cushing.

**C**. The subjects of the *Third Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

## I. PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commission (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. By agreement with the Western Infirmary, full accommodation and facilities for teaching are provided for the University in the Pathological Institute recently erected at the Western Infirmary. By mutual arrangement the Professor is the Pathologist to the Infirmary, and the whole material of that institution is available for teaching purposes.

Before the founding of the Chair, Pathology had been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held the office of Pathologist to the Western Infirmary.

*Professors.*

1894. Joseph Coats, M.D.
1899. Robert Muir, M.A., M.D.

*First Assistant* (*with special reference to Bacteriology*).

Alex. R. Ferguson, M.D., C.M.

*Second Assistant.*

James Walker, M.B.

Two courses are held, one of Pathology in winter, and one of Practical Pathology in summer. In the work of the classes the two Assistants take part, and they conduct tutorial classes during the winter session.

The course of Pathology consists of Systematic Lectures and Demonstrations. The Lectures (Monday, Wednesday, and Thursday) are devoted to an exposition of the fundamental facts and principles of Pathology. In the Demonstrations (Tuesday and Friday) the fresh material from the Infirmary and preparations from the Museum are used as the basis for an exposition of the subjects illustrated. The projection microscope and lantern are used at the lectures and demonstrations, and special microscopic demonstrations are given from time to time.

The class of Practical Pathology meets during the summer session four days a week from 3 to 5. The course of study embraces Pathological Anatomy and Histology, and Practical Bacteriology.

The fee for each course is £3 3s. Students who have had one of the courses may attend the Demonstrations on payment of £1 1s.

The Museum of the Western Infirmary is open to all Infirmary students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 A.M. onwards, are also open to the students. Each student during his curriculum must attend at least twenty post-mortems, and must produce evidence that he has received instruction in the methods of post-mortem examination.

*Post-graduate or Laboratory Courses in Practical Pathology and Bacteriology* may be held in October and March. These courses are open also to senior students. Particulars may be obtained from the Professor.

*Text-books.—A Manual of Pathology* by Dr. Joseph Coats; *Practical Pathology* by Dr. G. Sims Woodhead; and a *Manual of Bacteriology* by Drs. Muir and Ritchie.

The following works are also recommended: Cohnheim's *Lectures on General Pathology*, Thoma's *Handbook of General Pathology*, and Metchnikoff's *Comparative Pathology of Inflammation.*

## II. FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

*Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
1898. John Glaister, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This class will meet daily from 11 to 12 during the summer session.

The Lectures on Forensic Medicine will, as far as possible, elucidate the application of every branch of Medical Science to the purposes of the law.

In the department of Public Health special attention will be given to the subjects of Air, Ventilation and Heating, Water, Food, Meteorology, Injurious Trades, Vital Statistics, Sanitary Law, Disinfection, Disposal of Sewage and Refuse, and Sanitation in general.

During the session students will have an opportunity of visiting, along with the Professor or his assistant, the most important public institutions and works in the district dealing with Disposal of Sewage and Refuse, Disinfection, Ventilation, etc.

Demonstrations, macroscopic and microscopic, will be given frequently during the session, illustrating, as far as possible, the whole range of Forensic Medicine and Public Health.

Written and oral examinations (attendance on which is compulsory) will be held at intervals.

In addition, facilities will be given for studying Practical Toxicology in the Medico-Legal Laboratory at the University.

*Text-books* (for Class of Medical Jurisprudence and Public Health).—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Hofmann, *Atlas of Legal Medicine* (English edition, 1898); Glaister, *Text-book of Forensic Medicine, Toxicology, and Public Health*, 1902; Glaister, *Manual of Public Health for Students, etc.*

PUBLIC HEALTH LABORATORY.—The Laboratory is under the personal supervision of Professor Glaister and his assistant, and is open at hours arranged to suit Classes, for practical instruction in the methods of analysis of air, water, soils, foods, and the detection of adulterations; and instruction in practical meteorology, sanitary appliances, and physics, in relation to public health.

*Air.*—Estimation of carbonic acid, by Pettenkofer's, Angus Smith's, and other methods; detection and examination of gaseous impurities; estimation of organic impurity by ammonia and Carnelly's process; microscopic examination of matters in suspension; estimation of humidity, dew-point, and tension of vapour.

*Water.*—Qualitative and quantitative analysis; microscopical examination of sediments; physical and biological examination; comparison and estimation of value of filtering media and filters; mineral and medicinal waters.

*Sewage.*—Effects of purification processes; analysis of raw sewage and sewage effluents.

*Soils.*—Chemical and physical examination.

*Foods.*—Analysis and detection of adulterants; microscopic examination of food-stuffs; physical, microscopical and chemical examination of milk; analysis of milk, cream, butter, cheese, and oils used as foods; microscopical examination and chemical analysis of starchy foods, sugars, tea, coffee, cocoa, pepper, etc.; examination of preserved foods and detection of their adulterations.

*Disinfectants.*—Their valuation and comparison; examination of pigments in articles of attire, wall-papers, and those used in trade.

*Bacteriology.*—Methods of investigation, cultivation, and transmission; preparation of culture media; bacteriological examination of air, water, foods, blood, earth, etc.; microphotographic processes.

*Microscopy.*—Examination of food substances; parasites—animal and vegetable; crystalline deposits; micro-organisms.

*Meteorological Instruments.*—Barometer, thermometers, different kinds; rain gauges; anemometers and manometers; hygrometers, and their different forms.

The Laboratory is furnished with all the necessary chemical apparatus, etc., required for analysis, and each student is furnished with a set of apparatus for personally doing the work.

There is a complete collection of model sanitary appliances, including traps, soil stacks, to illustrate "syphoning," etc.; soil-pipes; ventilators; meteorological instruments; and an abundant collection of drawings, diagrams, and illustrative tables.

The Laboratory also possesses a large collection of microscopic specimens illustrative of parasites—animal and vegetable, food characteristics, and bacteriology.

Visits will be made, as arranged, during the Session, to view and inspect modes of sewage disposal, and unhealthy trades, etc.

The Laboratory instruction is recognized for the Diplomas in Public Health of the Triple Scotch Colleges, of the English Colleges, and of the Universities of Cambridge and Oxford under the new regulations.

*Text-books* (for Public Health Laboratory). — Lehmann, *Methods of Practical Hygiene* (English edition), 2 vols.; Kenwood, *Public Health Laboratory Work* (second edition); Hewlett, *Manual of Bacteriology*, 1898; Muir and Ritchie, *Manual of Bacteriology*, 1897; Slater and Spitta, *Atlas of Bacteriology*, 1898.

N.B.—(*See under Faculty of Law, p.* 119.)

**D**. The subjects of the *Final Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

## I. SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

*Professors.*

1815. John Burns, M.D.
1850. James A. Lawrie, M.D.
1860. Joseph Lister, M.B., F.R.S.
1869. Sir George H. B. Macleod, M.D., LL.D., F.R.S.E.
1892. WILLIAM MACEWEN, M.D., LL.D., F.R.S., Hon. F.R.C.S.

The Professor delivers during winter a course consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations, in many of which the electric projection microscope is used for demonstrating surgical pathological histology. There are three written examinations. The following is a general outline of the course:—Anaesthesia; wounds and their varieties; haemorrhage and its arrest; the phenomena of destruction and repair of tissues; inflammation; surgical bacteriology; infective processes and diseases dependent upon bacteria and their products; neoplasms; injuries, including fractures and dislocations; Regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the principal operations, and the performance of recognised operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

## II. CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professors.*

1874. George Buchanan, M.A., M.D., LL.D.
1900. Sir Hector C. Cameron, M.D., C.M.

*Assistant.*

Alfred A. Young, M.A., M.B., C.M.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment.

The class meets daily at 9 A.M., both in the summer and winter session, in the Western Infirmary—Wards XIII., and XIX.; and in the Overtoun Theatre.

## III. PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

*Professors.*

1714. John Johnstoun, M.D.
1751. William Cullen, M.D.
1756. Robert Hamilton, M.D.
1757. Joseph Black, M.D.
1766. Alex. Stevenson, M.D.
1789. Thomas C. Hope, M.D.
1796. Robert Freer, M.D.
1827. Charles Badham, M.D.
1841. William Thomson, M.D.
1852. John M‘Farlane, M.D.
1862. Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.
1900. Thomas M‘Call Anderson, M.D.

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard to the immensely wide range of diseases usually assigned to the physician and the general practitioner, as opposed to the surgeon and the specialist. The general principles and doctrines which are available at the bedside of the sick are each year carefully and thoroughly considered in connection with such a number and variety of illustrative instances as may be expected to leave a lasting and vivid impression of the essentials of Diagnosis, Prognosis, and Treatment, in so far as these can be advantageously delivered in the form of lectures guided by a systematic plan, conveying not only the opinions of the Professor, but also references to the general history of opinion, and the steps by which the existing knowledge of disease has been built up. Thus, a broad and sufficient basis is obtained for conveying an insight into what may now be regarded as settled medical doctrine, and also, as regards points which cannot be so considered, suggestions as to the direction in which we may reasonably look for guidance in the future. But no attempt is made to give a complete synopsis annually of the details of practice in all departments; for this, the student is of necessity referred to one or other of the current text-books.

The Professor conducts at the Western Infirmary, both in winter and in summer, part of the regular Clinical Instruction given to the Medical Students of the University. Tutorial Instruction is carried out by the University Assistants twice a week, and three written examinations are held in the course of the winter session. Medals and certificates of distinction are determined upon the basis of these examinations.

A portrait-medal of Sir William T. Gairdner is awarded to the most distinguished student in the class of Practice of Medicine. The dies for this medal were presented to the University along with a Portrait of the Professor by his former students, on 28th January, 1893.

*Text-books.*—One of the following is recommended for general use:—Frederick Taylor's *Manual of the Practice of Medicine*, or Osler's *Principles and Practice of Medicine*; Hilton Fagge's *Principles and Practice of Medicine*, 2 vols. (1891), is a larger work of great excellence, specially adapted for senior students. Finlayson's *Clinical Manual* is in very general use for hospital work, and Dr. Anderson's *Contributions to Clinical Medicine* may be consulted.

## IV. CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professors.*

1874. Thomas M'Call Anderson, M.D.
1900. **Samson Gemmell, M.D.**

*Assistant.*

Alfred Webster, M.D.

The class meets five days a week during the winter and summer sessions, and three or four written examinations are held. On Mondays and Thursdays the Professor gives demonstrations of cases in the wards; and on Wednesdays there is a clinical lecture in the theatre on cases under observation.

The clinical tutors meet the class (in sections) on Tuesdays and Fridays for instruction in the investigation of cases and in the use of instruments and apparatus. A ward visit is made by the Professor every day at the close of the regular instruction.

### V. MIDWIFERY.

This subject was originally taught as part of the course in Anatomy, but in 1790 the Faculty of the College appointed Mr. James Towers to be Lecturer in Midwifery, and in 1792 assigned him a salary out of the Walton Fund. In 1815 the Chair was founded by George III., and Mr. Towers became the first Professor. The Crown is the Patron.

*Professors.*

1815. James Towers, C.M.
1820. John Towers, C.M.
1833. Robert Lee, M.D.
1834. William Cummin, M.D.
1840. John M. Pagan, M.D.
1868. William Leishman, M.D.
1894. Murdoch Cameron, M.D.

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

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**E.** Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are required also to attend the following courses:—

### I. INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Consulting Physician to the Royal Lunatic Asylum, Gartnavel.

*Lecturer.*

1880. David Yellowlees, M.D., LL.D.

A course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays.

*For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."*

### II. OPHTHALMOLOGY.

The practical course of instruction in Ophthalmology must consist of not less than twenty meetings, of which six may be class-room lectures, and the others shall be for clinical instruction. Such courses are available in the Glasgow Eye Infirmary (174 Berkeley Street and 80 Charlotte Street), and in the Glasgow Ophthalmic Institution (126 West Regent Street). In the Berkeley Street branch of the Eye Infirmary attendance is given daily at 1 P.M. and students may attend twice a week the lectures and the clinique of any of the three surgeons. The same rule holds in the Charlotte Street branch. At the Ophthalmic Institution lectures are delivered during the summer session every Monday at 4 P.M., and practical instruction is given on Tuesday and Friday at 2 P.M. In the case of women students lectures are delivered in the summer session by Dr. A. Maitland Ramsay, in Queen Margaret College every Tuesday and Friday at 4 P.M., and practical instruction is given at the Ophthalmic Institution every Monday and Thursday at 2 P.M.

### III. FEVERS.

The course of Clinical Instruction in Fevers must consist of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds. Such instruction is given in the City of Glasgow Fever Hospital, Belvidere. Each student must, before commencing attendance at the Hospital, obtain at the office of Mr. James D. Borthwick, Treasurer, Police Department, 285 George Street, an admission card—Fee, £1 1s.

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**F.** Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are also recommended to attend the following courses :—

## I. DISEASES OF THE EAR.

This Lectureship was instituted by the University Court in 1895.

*Lecturer.*

1895. Thomas Barr, M.D.

Short courses on Diseases of the Ear are conducted in both winter and summer. They are of a practical character, and arrangements are made so that each student who takes the course may, in accordance with the recommendation of the Senate under Ordinance No. 14, Section vii., 10 b, attend at least ten meetings for practical instruction. At these meetings the students are taught how to examine and treat Ear Disease, while illustrative cases are regularly demonstrated. In connection with each course a certain number of lectures are delivered in the University on Mondays at 4 p.m. The practical work is carried on at the Glasgow Ear Hospital or Western Infirmary on days and hours to suit the convenience of students. As it is not considered desirable that there should be an elaborate or complete course of systematic lectures on this subject, it is understood that a suitable book on Diseases of the Ear should be studied by the student while attending the practical course. It will be arranged that those who are desirous of pursuing the subject further may receive more advanced practical instruction in a second course.

Prizes will be awarded to the most proficient students as tested by clinical examination.

*Text-book.—Manual of Diseases of the Ear* (3rd Edition, 1901), by Thomas Barr, M.D.

## II. DISEASES OF THE THROAT AND NOSE.

This Lectureship was instituted by the University Court in 1895.

*Lecturer.*

1895. James Walker Downie, M.B., F.F.P. and S.G.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the recommendation of the Senate under Ordinance No. 14, Section vii., Sub-section 10 b, according to which candidates for graduation in Medicine are recommended to attend a short practical course of ten meetings on this subject. To permit of the necessary sub-division of the class for purposes of practical instruction there is a winter and a summer course, each having about the same number of meetings.

At the beginning of each session, the class meets as a whole at the University on Thursdays at 4 P.M. There the methods of examining the throat and nose, and the apparatus necessary for this purpose, are described and explained: the appearance of the parts in health and as altered by diseases is described, as are also the means of treatment, etc.

The class is then divided into sections for practical instruction. These sectional meetings are held at the Western Infirmary (Throat and Nose Department)—one section on Tuesdays, another on Fridays, at 4 P.M. At these meetings each student is afforded every facility for examining the various patients for himself under the supervision of the Lecturer.

In the Lectures at the University fuller instruction than can be communicated in the presence of the patient regarding pathological conditions seen at the Infirmary is given, and these lectures are illustrated by casts, coloured and photographic diagrams, instruments, anatomical and pathological specimens. While regular attendance on the practical instruction at the Infirmary is necessary to obtain a certificate, all members of the class are strongly recommended to attend the meetings at the University.

*Text-books.—Clinical Manual of Diseases of the Throat*, by J. Walker Downie, M.B.; *A Handbook of Diseases of the Nose*, by James B. Ball, M.D.

## III. DISEASES OF THE SKIN.

The course of instruction on Diseases of the Skin at the Hospital for Skin Diseases is of a thoroughly practical character, and is conducted by Professor M'Call Anderson during the summer session. Arrangements have been made to supply short practical courses in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10. The course commences on Monday, 27th April, 1903.

## IV. DISEASES OF CHILDREN.

Arrangements will be made for enabling students to carry out the recommendation of the Senate, that each candidate for Degrees in Medicine should attend a short practical course on this subject.

## IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chairs of Forensic Medicine and Political Economy. In this Faculty there are also Lectureships on Civil or Roman Law, Constitutional Law and History, Jurisprudence, Public International Law, International Private Law, and Mercantile Law.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance, such as is required for admission to examination for a Law degree, in a class of Scots Law and a class of Conveyancing, in a Scottish University, and evidence of the like attendance in a class of (*a*) Civil Law, (*b*) Philosophy of Law and International Law, Public or Private, (*c*) Constitutional Law and History in a Scottish University, or such attendance in another University or School of Law as may seem to the Dean and his Council to be equivalent thereto, and (*d*) Medical Jurisprudence, in a University, or in a School recognised as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined on (1) Civil Law, (2) Philosophy of Law and International Law, Public or Private,

(3) Constitutional Law and History, (4) Medical Jurisprudence, (5) Scots Law, Civil and Criminal, including Procedure, (6) Conveyancing. Information as to the books prescribed may be obtained from the Clerk of Intrants. If, however, the intrant has obtained the degree of LL.B. from a Scottish University after examination in all the subjects above prescribed for examination in Law, and also produces evidence that he has passed an examination in Procedure, he is held qualified in General Scholarship and Law without examination or other evidence of qualification, subject to the conditions that during the year immediately before presenting his diploma to the Examiners, he shall not have been engaged in any trade, business, or profession, as above set forth, and that he shall have duly presented his petition for admission and appeared before the Examiners prior to the commencement of such year. If the intrant has obtained said degree of LL.B. after passing examinations in one or more of the said subjects he is exempt from examination in these subjects. He must pass in at least two of the subjects at one time. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrant shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, and by the Law Agents and Notaries Public Act, 1891, and relative Acts of Sederunt of the Court of Session, prescribing rules as to subjects of examination and certain conditions of admission. The former Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination.

By an Act of Sederunt, dated 18th March, 1893, which came into operation in terms of an Act of Sederunt of 19th December, 1893, on 1st January, 1895 (but by a subsequent Act of Sederunt of 29th January, 1895, is not to take effect in case of candidates whose indenture is dated on or before 18th March, 1893, until 1st March, 1896), an Act of Sederunt of 20th December, 1873, and all amending provisions in subsequent Acts of Sederunt are repealed except as to anything that has been done in pursuance thereof.[1] The Act of Sederunt of 18th March, 1893, institutes two examinations in General Knowledge, instead of the Entrance Examination and General Knowledge Examination required by the Act of Sederunt of 20th December, 1873, the first of which is to be taken before or within one year after the commencement of apprenticeship, and the second either immediately after the first examination or at any time within three years thereafter. The Act of Sederunt prescribes the subjects of these examinations and of the examination in Law. In any subject to which the Certificates apply Lower or Higher Grade Leaving Certificates exempt from the first examination in General Knowledge, and Higher Grade Leaving Certificates from the second examination, Higher or Lower Certificates of the Oxford and Cambridge Schools Examination Board affording similar exemptions. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations, but an examination in Bookkeeping must be passed. A Lower Standard Certificate in the Preliminary Examination for M.A. under Ordinance No. 11 exempts from the first examination in General Knowledge in any subject to which that Certificate applies, and a Higher Standard Certificate exempts similarly from the second examination in General Knowledge. Certificates entitling to exemption from the first examintaion must be presented to the Clerk of the Board of Examiners of Law Agents before or within one year after the commencement of apprenticeship, and the three years within which the second examination must be taken are reckoned as from the date of such presentation of the certificate. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, if (*inter alia*) he hold a Degree of any University in the

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[1] The provisions of these earlier Acts of Sederunt may be found in previous *Calendars*.

United Kingdom granted after examination. By Act of Sederunt of 12th July, 1893, a candidate does not require to undergo examination in General Knowledge if he has been admitted as apprentice under indenture, and passed the entrance examination prescribed under the Act of 20th December, 1873, prior to 18th March, 1893, and has attended classes in Arts in terms of the Act of 20th December, 1873, and has completed attendance in such classes prior to 1st November, 1895. Further, by the Act of Sederunt of 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal. Candidates who have passed the Entrance Examination under the previously existing rules are exempt from the first examination under this Act of Sederunt, and candidates who have passed the General Knowledge Examination, prescribed by the Act of Sederunt of 20th December, 1873, before 1st January, 1894, are exempted from further examination in General Knowledge, and candidates who have passed the examination in Law under the said Act of Sederunt are exempt from further examination in Law.

The following alterations were made by Act of Sederunt dated 11th July, 1899:—(1) The first examination in general knowledge shall be taken before the commencement of apprenticeship, and no person shall be admitted as apprentice under indenture to a Law Agent until he shall have passed the said first examination, provided that any candidate who has already entered on his apprenticeship, or who may become an apprentice before this Act comes into operation, may offer himself for such examination within one year subsequent to the commencement of his apprenticeship, and subject to all the conditions of Acts of Sederunt in force at the date hereof. (2) The second examination in general knowledge may be taken at any time after the candidate has passed the first examination. (3) A candidate who fails to pass the first or second examination may again offer himself for examination, and shall be re-examined in all the subjects, or such part thereof as the examiners may determine. It shall be in the power of the examiners to fix a time before which a candidate who has failed to pass any examination shall not present himself again for examination. (4) No candidate shall be examined in Law until he has passed the second examination in General Knowledge. (5) This Act shall come into operation upon 1st January, 1900, and thereupon all provisions of the Act of Sederunt anent the admission of Law Agents of 18th March, 1893, inconsistent herewith, shall be repealed, except as to anything that has been done in pursuance thereof.

For Regulations as to Graduation in Law, see Index.

## *LAW.*

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

### *Professors.*

1714. Wm. Forbes, Advocate.
1746. Wm. Cross, Advocate.
1750. Hercules Lindsay, LL.D.
1761. John Millar, Advocate.
1801. R. Davidson, Advocate.
1842. Allan A. Maconochie, Advocate.
1855. Geo. Skene, Advocate.
1867. Robert Berry, M.A., LL.D., Advocate.
1887. Alexander Moody Stuart, LL.D., Advocate.

Scots Law.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale; Stoppage *in transitu*; Retention and Lien; Loan, Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (late editions).

The class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

## *CONVEYANCING.*

This Chair was instituted by ordinance of the Universities Commission (1858) of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

### *Professors.*

1862. Anderson Kirkwood, LL.D.
1867. Sir James Roberton, LL.D.
1889. JAMES MOIR, LL.D., Member of the Faculty of Procurators, Glasgow.

The course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The class meets every day, except Monday, from 8 to 9 A.M.

The text-books recommended are Duff's *Feudal Rights*, with Supplement; *Lectures on Conveyancing*, by Menzies; *Lectures on Conveyancing*, by A. M. Bell; and Craigie's *Statutes*.

Prizes are given for eminence in the class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

## *FORENSIC MEDICINE.*

This Professorship was created by the Crown in 1839.

### *Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
1898. John Glaister, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This course, qualifying for graduation in Law (B.L. and LL.B.), will be delivered during the winter session at 9 A.M., after the Christmas vacation.

*Text-books.*—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Glaister, *Text-book of Forensic Medicine*, etc., 1902.

(See under Faculty of Medicine, p. 103.)

## *POLITICAL ECONOMY.*

(See under Faculty of Arts, p. 78.)

## *CIVIL LAW.*

The study of Civil Law in Glasgow is coeval with the establishment of the University. In the University Annals it is recorded that, in 1460, lectures on the Civil Law were delivered in the Chapter-House of the Friars Predicators by Master William of Levenax (Lennox). After being for a considerable period in abeyance, the study of the subject was revived in 1712. In the middle of the eighteenth century the lectures were for the first time delivered in English; up to that time the prelections were in Latin. For some years during last century the lectures were once more in abeyance, but in session 1873-74 a class was again formed, and was taught in alternate sessions by the

Professor of Law. In 1894 the University Court, carrying out a recommendation of the Universities Commission (1876), instituted a separate Lectureship in the subject.

*Lecturer.*

1895. J. M. Irvine, LL.B., Advocate.

The course extends to eighty lectures. The first part of the course will deal with the Constitutional History of Rome and the history of the development of the law. This part is intended to serve as an introduction to the study of the special departments of the law. The latter part of the course will be devoted to a systematic exposition, in detail, of the various departments of the law, according to the order in which they are treated in Justinian's *Institutes.* The class meets four days a week during the winter session, from 5.30 to 6.30 p.m. Attendance at the class is required of all candidates for Degrees in Law (LL.B. and B.L.); it also qualifies for the Degree of M.A.

Honours in Economic Science.—The lectures in the class of Civil Law up to Christmas, together with about twelve additional lectures given after Christmas separately from the ordinary course on Civil Law, constitute a half course on the History of Civil Law qualifying for the Degree of M.A. with Honours in Economic Science.[1] The additional lectures will deal with the history of Civil Law after the time of Justinian and with the influence of the Civil Law in the development of modern law and existing institutions.

*Text-books.—Institutes of Justinian*; Eds., Moyle or Sandars. Reference is also frequently made to *Institutes of Gaius*; Eds., Poste or Muirhead.

*History of Civil Law.*—The text-books recommended for students taking the half course in History of Civil Law are Ortolan, *Histoire de la Législation Romaine* (English translation by Cutler); Taylor, *Constitutional History of Rome* (Lond. 1899); Bury, *History of the Later Roman Empire* (Lond. 1889).

## *CONSTITUTIONAL LAW AND HISTORY.*

This Lectureship was instituted by the University in 1878, and the class was taught in alternate years during the summer session, the course extending to forty lectures. In 1894 the

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[1] See fifth note on p. 177.

University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The course was extended to eighty lectures, and the class was made a Winter Class, meeting every year. In April, 1900, arrangements were made for extending the course to a hundred meetings for Arts students, and the extended course was recognized as a full course in Arts, qualifying for graduation for the ordinary Degree of M.A., and also for the Degree of M.A. with Honours in History. Attendance on the first eighty lectures of the course is required of all candidates for the Degree of Bachelor of Laws (LL.B.). Attendance on the first fifty lectures of the course qualifies for the Degree of B.L., subject to the conditions laid down in Ordinance No. 40.

*Lecturers.*

1878. Charles S. Dickson, M.A., Advocate.
1878. Alex. Ure, LL.B., Advocate.
1889. Robert T. Younger, LL.B., Advocate.
1894. WILLIAM S. M'KECHNIE, LL.B., D.Phil.

ORDINARY CLASS.—The course will be partly historical and partly analytical. The historical lectures will trace in outline the development of the Constitution from the Anglo-Saxon migrations to the present reign. The analytical lectures will treat (1) of the safeguards of the rights of individuals, and (2) of the separate parts of the Constitution and the distribution of power in the State.

The text-books recommended are those prescribed for the M.A., B.L., and LL.B. Degrees.

The hour for the meeting of the class is 4.30 P.M.

HONOURS CLASS.—(See under Faculty of Arts, p. 85.)

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## *GENERAL OR COMPARATIVE JURISPRUDENCE.*

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law. The subject was at an early date treated as an integral part of the course of Moral Philosophy, under the name of Natural Jurisprudence. From 1878 it was treated by the Lecturer on Public Law as introductory to that subject.

*Lecturer.*

1893. William Galbraith Miller, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. The lectures for 1902-3 will be mainly devoted to General Jurisprudence,—the ideas of Right, Obligation, Duty, Law, Custom, Justice, etc. A selection of leading cases and statutes will be prescribed for study. Lectures may be given on (1) abstract jurisprudence—the ideas of person, property, cause, etc. ; (2) some topic of Comparative Jurisprudence, such as the arrangement of the French, Indian, and German codes ; the Land laws of different countries ; or some particular crime or legal institution : or (3) the metaphysic of Law. The same course under the name of Philosophy of Law may in a special case be reckoned as a half course for the Degree of M.A. by candidates for honours in Economic Science (see p. 177).

The class meets at 4.30 p.m.

*Text-books.*—(See subjects for Degrees in Law.) Reference is constantly made to the ordinary text-books in the other Law Classes, and to the Statutes in ordinary collections.

## *THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.*

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, created separate courses for International Private Law and for Jurisprudence.

*Lecturer.*

1878. William Galbraith Miller, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. The course for 1902-3 will be doctrinal, dealing principally with the subjects of Nationality, War, and Neutrality.

Students are expected to be acquainted with the elements of the Civil Law, and to have a general acquaintance with Modern European History. *Text-book.*—Hall's *International Law.*

The class meets at 5.30 p.m.

## *INTERNATIONAL PRIVATE LAW.*

From 1878 this subject was treated as part of the course of Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, instituted a Lectureship on International Private Law.

*Lecturer.*

1894. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

This course is given in the summer session. The lectures discuss the principal doctrines as developed in the decisions of the British Courts contrasted with the results of Continental Jurisprudence. The subjects comprise History, General Principles, Comity, Public Interest, Nationality and Domicil; and in alternate sessions some of the following in detail: (1) Marriage, Divorce, Guardianship, and Family Law; (2) Contract, Delict, and Mercantile Law, including Bankruptcy; (3) Succession and Trust Law, Conveyancing and Heritable Rights; (4) Copyright, Trademarks, etc.; (5) Procedure and Evidence; (6) Criminal Law and Extradition, the other subjects being sketched in outline. For purposes of comparison and illustration reference is made to the collections of foreign codes, which will be found in the Library of the Faculty of Procurators. Students are expected to be familiar with the leading doctrines of the Civil Law and of Scots Law. The class meets at 5.30 P.M.

*Text-book.*—Rattigan, *Private International Law.*

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## *MERCANTILE LAW.*

This Lectureship was instituted by the University in 1894.

*Lecturers.*

1894. James Mackenzie, Member of the Faculty of Procurators, Glasgow.
1900. WILLIAM SHAW, Member of the Faculty of Procurators, Glasgow.

This course will extend to eighty lectures, and will embrace for the first half course the following subjects:—The Law of Contracts, including Retention, Pledge, the Factors Acts, Loan and the Law of Damages, Bankruptcy and Sequestration, Judicial Factors, Bills of Exchange, and Banking. The second half course will include the Law of Partnership, Joint Stock Companies, the Law of Carriage by Land; Maritime Law, including Affreightment, Lien, and Average; Marine, Fire, Life, and Accident Insurance, and the Law relating to Trade Marks and Patents. Attendance on the whole course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B.; and attendance on forty lectures, constituting a half course, may, subject to the conditions laid down in Ordinance No. 40, be reckoned as qualifying for the Degree of B.L. The principal subjects in the first half course have been prepared with special reference to the requirements of students intending to follow the profession of Accountants or Bankers. The class meets at 5.30 P.M.

## FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance, must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical Standards of the Church; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.[1] In order to be admitted to this examination he must, in accordance with the Act[2] of Assembly, 1896, produce, in addition to the certificate from the Presbytery recommending him, either (*a*) the diploma of a Master of Arts of a Scottish University, or the diploma of a Bachelor of Arts after an undergraduate course at any British or Irish University, or at any Colonial University at which the course is equivalent to that of a Scottish University, and which shall be approved by the General Assembly on a report from the Committee on the admission of ministers and the status of students of Divinity, or evidence that he has passed the examinations for, and is entitled to receive, such diploma of Master or Bachelor of Arts; or (*b*) evidence that he has passed the Preliminary Examination required of those proceeding to the Degree of Master of Arts in a Scottish University, or such examination as the University authorities recognize as equivalent thereto, and that he has attended some one of the courses required[3] for that degree, and has not only attended the classes of the course, but has duly performed the work of each of them. The subjects of examination are Greek (including the New Testament in Greek), Latin, Moral Philosophy, and Hebrew; provided always that a student who produces evidence that he has passed the examination for the Degree of Master or Bachelor of Arts in any of these subjects shall be exempted from examination in that subject.

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[1] The following are the subjects of examination for October, 1902:—LATIN—Livy, Book XXIV.; Horace, *Odes*, Book III. GREEK—Xenophon, *Memorabilia*, Book III. *St. Luke's Gospel.* HEBREW—The Grammar—Davidson's *Hebrew Grammar*, Sections 1—30. Genesis, Chapters I. and II., with grammatical questions limited to the sections in the Grammar prescribed. MATHEMATICS—Euclid, Books I., II., and III. Algebra to Quadratic Equations. NATURAL PHILOSOPHY—Deschanel, *Physics*, Part II. LOGIC—Jevons, *Elementary Lessons in Logic.* MORAL PHILOSOPHY—Muirhead, *Elements of Ethics* (University Extension Manual). ENGLISH LITERATURE—Morley's *First Sketch*, Chapter XII. (Anne to Victoria); Wordsworth, *Excursion*, Books V.—IX., Southey, *Life of Nelson*; Milton, *Paradise Lost*. The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the July number of *Life and Work*, along with the names of the Conveners and Vice-Conveners of the respective Committees.

[2] The provisions of this Act are applicable to all students beginning their course in Arts with a view to the ministry after May, 1895, and also to such students as have already begun their course and may desire to take advantage of its provisions.

[3] Any student who has gone through a curriculum in Arts in accordance with the provisions of Ordinance No. 11, but who has not graduated, may on application obtain, at the end of his course, a certificate to that effect at the Matriculation Office on production of his Preliminary Examination Certificate and the necessary Class-tickets duly signed.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

By Act VII. of the General Assembly, 1894, it is enacted—that "Candidates for licence who have finished a regular course of study in Theology shall be examined as soon as it can conveniently be done after the close of the Divinity session by one or other of the Examining Committees constituted by Act IX., Assembly 1872. . . . The time and place of examination, with any other necessary information, shall be published in the October number of *Life and Work.* The following shall be the heads of subjects of examination:—(i.) Apologetics, including Natural Theology; (ii.) Church History; (iii.) Old Testament Introduction and Exegesis; (iv.) New Testament Introduction and Exegesis; (v.) Christian Doctrine. . . . The special subjects of examination from year to year . . . as agreed upon by the several Committees, shall be intimated in the July number of *Life and Work.* Students who have passed for the Degree of B.D., and who satisfy the Committee that they have done so, shall be exempted from examination in the subjects covered by the Degree of B.D."

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,[1] during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

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[1] For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognised:—Mr. Thomas Harrower, 282 Bath Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mr. John Forsyth, 20 Rupert Street; Mr. David B. Johnstone, A.Mus., 16 Burnbank Terrace; Mr. James C. Newlands, 207 Bath Street; Mr. William Robertson, 487 Sauchiehall Street; and Mr. Charles Aitken, Christian Institute, Bothwell Street.

By Act IX. of the General Assembly, 1895, it is enacted—"that every student before being taken on trial for licence shall produce evidence of having regularly attended two courses of the Pastoral Lectures provided by the Home Mission Committee."

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with class certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

## *DIVINITY.*

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

*Professors.*

1640-50. David Dickson.
1642-61. Robert Baillie.
1653. John Young.
1669. Gilbert Burnet, D.D.
1674. David Liddell.
1682. Alexander Ross, D.D.
1688. James Wemyss, D.D.
1692. James Wodrow.
1708. John Simson.
1740. Michael Potter.
1744. William Leechman, D.D.
1761. Robert Trail, D.D.
1775. James Baillie, D.D.
1778. William Wight, D.D.
1782. Robert Findlay, D.D.
1814. Stevenson Macgill, D.D.
1840. Alexander Hill, D.D.
1862. John Caird, D.D.
1873. William Purdie Dickson, D.D., LL.D.
1895. William Hastie, D.D.

The course of Theology extends over three sessions.

The class meets on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock.

The subjects treated in the Lectures during the three sessions are—(1) Theology as a Science (Theological Introduction and Encyclopaedia); (2) Philosophy of Religion; (3) Apologetics; (4) The Comparative History of Religions; (5) Biblical Theology; (6) Critical History of Christian Doctrines; (7) Systematic Theology (Dogmatics and Ethics). Essays and Discourses are prescribed to the students. Examinations on the studies of the class will be held at intervals during the session.

Pastoral Training.—By a recent arrangement six Lectures on this subject will be given by a Lecturer appointed by the General Assembly.

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## *HEBREW AND SEMITIC LANGUAGES.*

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court, and is a member not only of the Faculty of Divinity, but also, since 1893, of the Faculty of Arts.

*Professors.*

1709. Charles Morthland.
1745. Alexander Dunlop, M.A.
1751. William Rouet.
1753. George Muirhead.
1755. John Anderson, M.A.
1757. James Buchanan, M.A.
1761. Robert Trail, D.D.
1761. Patrick Cumin, LL.D.
1820.[1] Gavin Gibb, D.D.
1831. William Fleming, D.D.
1839. George Grey, D.D.
1850. Duncan H. Weir, D.D.
1877. James Robertson, D.D.

By Ordinance No. 11 of the Universities Commission (1889) "Hebrew" and "Arabic or Syriac" are now included among the departments of study for graduation in Arts, and "Semitic Languages" among those for graduation with Honours.

The existing regulations of the Church of Scotland require all students of Divinity to give attendance on Hebrew for two sessions. The following are the arrangements for session 1902-3:—

I.—*Junior Class* (*Hebrew*), five days in the week at 10 A.M. (1) Davidson's *Introductory Hebrew Grammar*, with the Exercises; (2) Readings from the easier books of Scripture; (3) Lectures on Hebrew Archaeology.

II.—*Senior Class* (*Hebrew*), five days in the week at 9 A.M., and Tuesdays and Thursdays at 12 noon. (1) Readings in the Hebrew Scriptures; (2) Exercises in Unpointed Text and Translations from English; (3) Study of the Syntax and the Accents; (4) Revisal and extended study of Grammar.

In each of these classes there will be daily oral examinations, weekly written exercises, and four written examinations during the session. In the Senior Class, at the 9 o'clock hour, the readings will be from the books of Judges, Ruth, Isaiah I.-XX., and Psalms XC.-CVI. At 12 o'clock on Tuesdays there will be prelections on the book of Hosea, and on Thursdays lectures on Prophecy and the prophetical books. All students of Divinity enrolled in the class are required to attend at both hours.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. Before attending the class for this purpose, students are required by the Ordinance No. 11, sect. IV., 3, to pass a preliminary examination in Hebrew "on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination." Students presenting themselves for this examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

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[1] Dr. Gibb was assistant and successor to Dr. Cumin from 10th October, 1814.

III.—A class, or classes in *Arabic*, or *Syriac*, to meet at hours that may be found most suitable, will also be formed, if students offer.

The following arrangements have been made for the study of Arabic with a view to graduation in Arts. Candidates must pass a Preliminary Examination on the principles of Grammar and Syntax, and be able to translate simple passages from Arabic into English, and from English into Arabic. Thereafter they must attend a course of not less than 100 meetings, which, however, may be taken in two half courses, the second half course being a continuation of the first.

## *ECCLESIASTICAL HISTORY.*

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

*Professors.*

1721. William Anderson.
1752. William Rouet.
1762. William Wight, D.D.
1778. Hugh M‘Leod, D.D.
1809[1]. William M‘Turk, D.D.
1841. Jas. Seaton Reid, D.D.
1851. Thos. T. Jackson, D.D.
1874. William Lee, D.D.
1886. Robert Herbert Story, D.D., LL.D.
1898. James Cooper, D.D.

The course extends over two sessions, and embraces two series of lectures as well as oral and written examinations. The Junior and Senior Classes meet at separate hours, the Junior from 11 to 12 o'clock, the Senior from 12 to 1 o'clock.

The subjects treated in the Lectures during the two sessions will be:

I. Junior Division.—(1) The History of the Church Catholic from the Day of Pentecost to the close of the Fourth General Council; (2) The Acts of the Apostles. Books recommended—Kurtz, *Church History*; Moeller, *History of the Christian*

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[1] Dr. M‘Turk was assistant and successor to Dr. M‘Leod from 6th March, 1797

*Church*, A.D. 1–600; Eusebius, *Ecclesiastical History* (translated by M'Giffert); Ramsay, *The Church in the Roman Empire, before A.D. 170*, and *S. Paul the Traveller and the Roman Citizen*; Pullan, *History of Early Christianity*; Rainy, *The Ancient Catholic Church*; Hefele, *History of the Church Councils*; Du Bose, *The Ecumenical Councils*; Gibbon; The Apostolic Fathers; The Teaching of the Twelve.

II. SENIOR DIVISION.—(1) The History of the Church of Scotland; (2) The History of the Church of England; (3) Brief Courses of Lectures on the History of the Church of Ireland; (4) Important Epochs in the History of the Church on the Continent and in the East.

Books recommended—Grub, Cunningham, or Stephen, on the Ecclesiastical History of Scotland; Skene's *Celtic Scotland*; Macgregor's *Saint Columba*; John Knox, *History of the Reformation in Scotland*; Spottiswoode; Wodrow; M'Crie, *Knox*; Hume Brown, *History of Scotland* and *John Knox*; Andrew Lang's *History of Scotland*; Bede's *Ecclesiastical History of England*; Wakeman's *History of the Church of England*; *A History of the English Church*, edited by Stephens and Hunt; Dixon, *History of the Church of England.*

The following subjects have been prescribed for Essays to be written in the summers of 1902 and 1903: The Holy Eucharist in the Primitive Church (the Day of Pentecost till A.D. 400); The Arianism of the Goths; Ecclesiastical Architecture—Diocletian to Justinian; The Apology of Aristides; The Mendicant Orders; Erasmus; The Ecclesiology and Ecclesiastical History of any Parish or District in Scotland in which the Student may be resident.

## *DIVINITY AND BIBLICAL CRITICISM.*

This Professorship was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861. The Professor is appointed by the Crown.

*Professors.*

1863. William P. Dickson, D.D.
1873. WILLIAM STEWART, D.D.

This class will meet on five days of the week at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the class should accordingly be attended in two *consecutive* years.

The lectures in 1902-3 will treat of the principles of Interpretation, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

*Class of New Testament Greek.*—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. In the Exit Examination all students, both Bachelors of Divinity and others, are required to show proficiency in reading the New Testament in Greek *ad aperturam.* The Class will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Monday, Wednesday, and Friday at 9 A.M.

## *IV.—ENDOWED DEMONSTRATORSHIPS, ETC.*

### THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

*Demonstrators.*

1875. James Thomson Bottomley, M.A., D.Sc., F.R.S.
1899. James W. Peck, M.A.

### THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100 and in November, 1879, a further sum of £400, to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be "The Muirhead Demonstrator of Physiology."

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

*Present Demonstrator.*

William Brodie Brodie, M.B., C.M.

### THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889 :—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with Honours, or, in the event of several candidates obtaining Honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to Honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be :—

(1) To deliver two courses of lectures—twenty in the winter, twenty in the summer session—(*a*) on Mineralogy and Petrology, or (*b*) on Palæontology, or (*c*) on Physical Geography. These lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petrology, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These courses of lectures may be attended (*a*) by matriculated students of Geology, free; (*b*) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (*c*) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; in the ordinary course an appointment should have been made in April, 1895, on the results of the examinations for B.Sc., held between May, 1892, and April, 1895, but there was no one eligible in terms of the regulations. An appointment would have been made in April, 1896, had an eligible candidate appeared. No appointment could be made in April, 1900.

### LECTURESHIP ON THE THEORY AND PRACTICE OF MINING.

On 26th March, 1902, Mr. James S. Dixon, Fairleigh, Bothwell, recognising the want of a means of teaching the higher branches of the Theory and Practice of Mining, and the desire for acquiring such knowledge displayed by many young men connected with mining, made an offer of £10,000 to found a Chair or Lectureship of Mining in the University of Glasgow. The University Court accepted the offer, and a Lectureship has accordingly been founded. The Lecturer is to be appointed by a special body consisting of (1) the members of the Court, (2) the President of the Mining Institute of Scotland, (3) His Majesty's Inspector of Mines for the Western District of Scotland, (4) His Majesty's Inspector of Mines for the Eastern District of Scotland, (5) the President of the Lanarkshire Coalmasters' Association, and (6) the Donor during his life or till his resignation. The Lecturer's time need not be wholly devoted to his work in the University, but that work must have his first consideration. Mr. Dixon stipulated that in addition to the ordinary class or classes a special class should be held on at least three days a week during the session, at an hour not before five P.M. and to end not later than eight P.M., so that young men employed during the day at mining work in the country districts might be able to attend at least this particular class. The appointing body has the power at the expiry of the first five years from the institution of the Lectureship, and at the expiry of every five years thereafter, to revise and alter the scope of the Lectureship and the duties of the Lecturer.

### WALTONIAN MEDICAL LECTURESHIP.

This Lectureship was founded in 1788 by the Rev. Dr. William Walton, Rector of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1000, increased by subsequent accumulations to £2787. The lecturer is required to take for his subject that branch of Medicine or Science connected with Medicine which may be assigned to him by the Governing Body of the University. From 1792 a salary was provided out of the Walton Fund for a lecturer on Midwifery till 1815, when the Chair of Midwifery was founded. From 1816 provision was made in like manner for the teaching of Materia Medica till a Chair in that subject was founded in 1831. Since 1831 the lectureship has been devoted to the subject of Ophthalmology, but, on the resignation of Dr. Thomas Reid in the end of 1900, the University Court, taking into account that the requirements of Opthalmology under the new Ordinances were met by the training afforded to students in the Glasgow Eye Infirmary and the Glasgow Ophthalmic Institution, resolved to devote the proceeds of the Foundation to the teaching of some other subject. The arrangements for this are not yet (May, 1902) completed.

*Lecturers.*

*Midwifery*—1792-1815. James Towers, C.M.
*Materia Medica*—1816-1831. Richard Millar, M.D.
*Ophthalmology*—1831-1868. William M'Kenzie, M.D.
*Ophthalmology*—1871-1900. Thomas Reid, M.D., LL.D.

### GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, "the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated students and others may attend the Lectures.

1888. Professor Max Müller.
1892. Principal Caird, D.D., LL.D.
1893. Professor William Wallace, M.A.
1895. Principal Caird, D.D., LL.D.
1896. Professor Alexander B. Bruce, D.D.
1900. Edward Caird, D.C.L., LL.D., Master of Balliol.
1903. PROFESSOR ÉMILE BOUTROUX.

### ALEXANDER ROBERTSON LECTURESHIP.

The Rev. Alexander Robertson, a probationer of the Church of Scotland, who died at Glasgow on 3rd August, 1899, left the residue of his estate, amounting to £2500, for the endowment of a Lectureship in defence of the Christian Religion. The regulations drawn up by his Trustees—Mr. James Lymburn, Librarian to the University, and the Rev. James B. Dalgety, Paisley—received the sanction of the University Court on 14th November, 1901, and are as follows:

1. The Lectureship shall be called the Alexander Robertson Lectures.

2. The course shall be held not oftener than once in every two years, and shall consist of not fewer than five lectures.

3. Out of the revenue of the Lectureship Fund the lecturer shall be paid the sum of £100 when the lectures have been delivered, and a further sum of £50, provided he shall have published his lectures within one year of their delivery, and shall have furnished to the Library of the University of Glasgow fifty copies for distribution.

4. The Lecturer shall be appointed by the University Court on the nomination of a Committee consisting of the Principal of the University and of the Professors in the Faculty of Theology; and it shall be in the power of the Committee to nominate, if they see fit, a member of the Faculty of Theology.

5. It shall be the duty of the Court, at least twelve months before the income of the Lectureship Fund shall have reached the sum necessary to pay the remuneration of the Lecturer and the grant for publication of the lectures, to send intimation to that effect to the Dean of the Faculty of Theology, and should the aforesaid Committee fail to nominate any one within six months after receiving the said intimation, it shall be in the power of the Court to proceed of itself to the selection and appointment of a Lecturer.

6. The lectures shall be delivered at such times and in such place or places as the said Committee may appoint. Admission to the course shall not be restricted to matriculated students, but shall be freely open to the general public.

7. All surplus revenue and any balance accruing from the non-publication of the lectures or otherwise shall be added to the capital fund of the Lectureship. But should at any time the biennial income of the fund reach a larger sum than £150, two-thirds of the balance over that amount shall go to augment the emolument of the Lecturer, and one-third to increase the grant for the publication of the lectures.

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### M'CALLUM CELTIC LECTURESHIP.

The late Rev. Archibald Keily M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer will be appointed by the University Court for a period of three years, and will be eligible for re-election after a subsequent appointment for three years has been made. Matriculated students and others may attend the Lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and such students as may attend the Lectures, and any others interested in Celtic Literature. The Library is to be kept separate and designated "The Celtic Lectureship Library," the sum of £10 to be annually expended in making additions thereto.

*Lecturer*—1900. PROFESSOR MAGNUS MACLEAN, D.Sc.

## *V.—WOMEN'S DEPARTMENT.*

### *QUEEN MARGARET COLLEGE.*

In February, 1892, the Universities Commission issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College, having considered the provisions of this ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They accordingly, with the concurrence of Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in session 1892-93 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating the part of the University buildings and grounds which is devoted to the education of women.

The classes in Queen Margaret College will meet as follows daily, unless otherwise specified :—

### WINTER SESSION 1902-3.

## *I.—ARTS.*

### THURSDAY, 16TH OCTOBER.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Latin, Class I.*, | 9.45 a.m., | £3 3 | PROF. RAMSAY and Mr. D. Rankin. |
| ——— *Class II.*, | 3 p.m., | 3 3 | |
| *Greek, Class I.*, | 12 noon, | 3 3 | PROF. PHILLIMORE and Mr. G. Macdonald. |
| ——— *Class II.*, | 8.45 a.m., | 3 3 | |
| *English Language and Literature*, | 2 p.m., | 3 3 | PROF. RALEIGH and Mr. D. H. Crawford. |
| *French Language and Literature*, | 9.45 a.m., | 3 3 | M. Charles Martin. |
| *German Language and Literature*, | 11 a.m., | 3 3 | Dr. G. P. Thistlethwaite. |
| *Logic*,[1] | 12 noon, | 3 3 | Mr. N. D. Smith. |
| *Logic*,[1] (at the University), | 9 a.m., | 3 3 | PROF. LATTA. |
| *Moral Philosophy*,[2] | 11 a.m., | 3 3 | Mr. R. A. Duff. |
| *Moral Philosophy*[2] (at the University), | 8 a.m., | 3 3 | PROF. JONES. |
| *Political Economy* (Do.), | 2 p.m., | 3 3 | PROF. SMART. |
| *Education* (Do.), | 3.30 p.m., | 3 3 | Mr. Adams. |
| *History* (Do.), | 10 a.m., | 3 3 | PROF. MEDLEY. |
| *Mathematics Class I.*, | 8.45 a.m., | 3 3 | PROF. JACK and Dr. Carslaw. |
| ——— *Class II.*, | 2 p.m., | 3 3 | PROF. JACK and Mr. Bell. |
| *Natural Philosophy*, | 3 p.m., | 4 4[3] | Prof. Blyth. |
| *Physical Laboratory*, | Sat., 10 a.m. to 12 noon, | | |
| *Chemistry*, | 12 noon, | 3 3 | Dr. T. Gray. |
| *Chemical Laboratory*, | 10 a.m. to 1 p.m., | £3 3 to 5 5 | |

## *II.—MEDICINE.*

### THURSDAY, 16TH OCTOBER.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Chemistry*, | 12 noon, | £3 3 | Dr. T. Gray. |
| *Chemical Laboratory*, | 10 a.m. to 1 p.m., | £3 3 to 5 5 | |
| *Practical Chemistry*, | 9–11 a.m., Tues. and Thurs., | 3 3 | |
| *Physics*, | 3 p.m., Mon., Wed., and Fri., | 3 3 | Prof. Blyth. |
| *Physical Laboratory*, | 10–12, Saturdays, | | |
| *Anatomy, Junior*, | 11 a.m., | 3 3 | Dr. T. H. Bryce. |
| ——— *Senior*, | 3.15 p.m., | 3 3 | |
| *Practical Anatomy*, | 9 a.m. to 5 p.m., | 3 3[4] | |
| *Physiology*, | 2 p.m., | 3 3 | PROF. M'KENDRICK and Muirhead Demonstrator. |

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[1] Women students may select either class of Logic.

[2] Women students may select either class of Moral Philosophy.

[3] Fee for a second or subsequent session, £3 3s.

[4] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Materia Medica and Therapeutics,* | 4 p.m., | £3 3 | Dr. Maclennan. |
| *Pathology, Systematic,* | 8 a.m., | 3 3 | Dr. Workman. |
| *Surgery,* | 3.30 p.m., | 3 3 | Dr. Pringle. |
| *Practice of Medicine,* | 4.30 p.m., | 3 3 | Dr. J. Lindsay Steven. |
| *Clinical Surgery,* | 9 a.m. | (see Hospitals). | |
| *Clinical Medicine,* | 9 a.m., | (see Hospitals). | |
| *Midwifery,* | 12 noon, | 3 3 | PROFESSOR M. CAMERON and Dr. J. M. M. Kerr. |

## SUMMER SESSION, 1903.

## *MEDICINE.*

### WEDNESDAY, 22ND APRIL.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Botany,* | 11 a.m., | £3 3 | Dr. W. H. Lang. |
| *Practical Botany,* | 3.30 p.m., | 3 3 | |
| *Zoology,* | 1 p.m., | 3 3 | PROFESSOR YOUNG[1] and Dr. J. Rankin. |
| *Practical Zoology,* | 2 p.m., | 3 3 | |
| *Practical Anatomy,* | 9 a.m. to 5 p.m., | 2 2[2] | Dr. T. H. Bryce. |
| *Embryology,* | 11 a.m., Mon., Tues., Wed., Thurs., | 2 2 | |
| *Practical Anatomy and Embryology,* if taken together, | | 3 3 | |
| *Practical Pharmacy,* | 10.30 a.m., | 3 3 | Dr. Maclennan. |
| *Practical Physiology,* | 2 p.m., | 3 3 | PROF. M'KENDRICK and Muirhead Demonstrator. |
| *Forensic Medicine,* | 12.30 p.m., | 3 3 | PROFESSOR GLAISTER. |
| *Practical Pathology,* | 10.30 a.m., | 3 3 | Dr. Workman. |
| *Insanity,* | 12 noon, Wed., University, at Gartnavel 1 day weekly | 2 2 | Dr. Yellowlees. |
| *Diseases of the Eye,* | 4 p.m., Tues. and Fri., and Clinique, 2 p.m. on Mon. and Thurs. | 2 2 | Dr. A. M. Ramsay. |

HOSPITALS.—Royal Infirmary—First year, £10 10s.; Second year, £10 10s.; six months, £6 6s.; three months, £4 4s. Royal Hospital for Sick Children—twelve months, £1 1s. Glasgow Maternity Hospital—£3 3s. Belvidere Fever Hospital, £1 1s.

SCIENCE CLASSES.—Of the subjects above enumerated the following are also in the Faculty of Science, viz.:—Mathematics, Natural Philosophy, Chemistry, Botany, Zoology, Anatomy, Physiology, and attendance upon the lectures and in the practical classes qualifies for graduation in Science.

The Honours Classes in Arts and the Higher Classes in Science at the University are open to women.

The arrangements for the classes in Queen Margaret College are similar to those of the classes for men, with the exception of English, French, German, Logic, Moral Philosophy, and Natural Philosophy, the arrangements for which are as follows:—

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[1] See note on page 95.

[2] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

## ENGLISH LANGUAGE AND LITERATURE.

*Professor*—W. A. Raleigh, M.A.
*Lecturer*—
*Assistant*—

The class will meet daily, except on Saturday, at 2 p.m.

The subjects to be studied are the following:—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of English Literature during the Seventeenth Century (1637-1700). The works prescribed for study are:—

Milton, *L'Allegro, Il Penseroso, Lycidas, Sonnets, Paradise Lost*, Books I.-IV.; *Tractate of Education;* Dryden, *MacFlecknoe, Absalom and Achitophel*, Part I., *Discourse on Satire;* Sir Thomas Browne, *Religio Medici;* Locke, *The Conduct of the Understanding* (ed Fowler, Clarendon Press); *Seventeenth Century Lyrics* (ed. Saintsbury, pub. by Percival & Co.). Plays recommended for reading—Dryden, *Tyrannic Love;* Congreve, *The Way of the World.*

II. On Tuesdays and Thursdays the following subjects will be studied:—

(1) The history of the English Language.

(2) English Composition. Text-books: *Composition Primer* and *Questions and Exercises on English Composition*, Nichol and M'Cormick.

(3) Shakespeare, *Twelfth Night, Othello.*

Students who have already taken the ordinary class are permitted to attend the Lectures on Monday, Wednesday, and Friday, for a fee of £2 2s. Such attendance cannot be reckoned towards graduation.

For the Honours Class, see p. 72. For the Nichol Memorial Prize, see Index.

## FRENCH LANGUAGE AND LITERATURE.

*Lecturers.*

1895. Alfred Mercier, L.-ès-L.
1898. Charles Martin, M.A. (Paris), O.A.

The class meets daily at 9.45 a.m., and the course qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the class of French Language and Literature at page 73.

Students who take French for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone or the Literature Class alone. The fee for the Language Class alone or the Literature Class alone is £2 2s.

Honours Class.—See p. 73.

## GERMAN LANGUAGE AND LITERATURE.

*Lecturer.*

G. P. Thistlethwaite, B.A., Ph.D.

Ordinary Class.—This class meets daily at 11 a.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the Class of German Language and Literature at page 74.

Students who do not intend to graduate may take either the Literature Class or the Language Class alone. The fee for one class alone is £2 2s.

Honours Class.—See p. 74.

## LOGIC.

*Lecturer*—Norman D. Smith, M.A.

This class meets daily at 12 noon, and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Logic and Rhetoric at page 76.

## MORAL PHILOSOPHY.

*Lecturer*—Robert A. Duff, M.A.

This class meets daily at 11 a.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Moral Philosophy at page 77.

## NATURAL PHILOSOPHY (PHYSICS).

*Lecturer.*

JAMES BLYTH, M.A., LL.D., F.R.S.E.

This class will meet daily at 3 p.m., except on Saturdays; also, for practical work, on Saturdays, 10 to 12. The course will include :—

(1) Experimental Physics (Properties of Matter, Sound, Heat, Light, Magnetism, Static Electricity, Voltaic Electricity, Electro-Magnetism), Mondays, Wednesdays, and Fridays. The Lectures will be fully illustrated by experiment.

(2) Theoretical Mechanics (Elementary Kinematics, Elementary Dynamics), Tuesdays and Thursdays.

(3) Practical Physics, Saturdays, 10 to 12. The students will work practically in the Laboratory, and will be taught the construction and use of physical apparatus generally, and will also be required to employ the various instruments, so as to verify natural laws and obtain numerical results.

*Text-book.*—Knott's *Elementary Physics* or Watson's *Physics.*

Students intending to take a Degree in Arts must take the whole course. The requirements of students preparing for Degrees in Medicine will be met by the first division of the course, and by attending three days weekly, viz., Mondays, Wednesdays, and Fridays.

## *VI.—SPECIAL STUDY AND RESEARCH.*

In Ordinance No. 61, the Universities Commission (1889) made the following regulations for the encouragement of special study and research, and for the appointment of Research Fellows :—

I. It shall be in the power of the Senatus Academicus in each University, with the approval of the University Court, to make regulations under which graduates of Scottish Universities or of other Universities recognized by the University Court for the purposes of this ordinance, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It shall be the duty of the Senatus Academicus in each University—(1) To receive and decide upon all applications for admission to prosecute special study or research; (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students); (3) To make regulations for the supervision of their work; (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner; (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. Any application for admission shall be in the first instance referred by the Senatus Academicus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—(*a*) That his proposed line of study or research is a fit and proper one; (*b*) That he possesses a good general education; (*c*) That he is of good character; (*d*) That he proposes to prosecute his studies or research during a period to be approved by the Senatus Academicus. The Faculty or the Committee shall make a report to the Senatus Academicus upon each application. It shall also be their duty, subject to the regulations of the Senatus Academicus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student shall be required to matriculate each year, paying the ordinary fee.

VI. Research Students shall have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus Academicus, may determine.

Under this section the following regulations have been made :—1. In each laboratory each Research Student shall make payment of a sum which is estimated by the Professor as sufficient to cover the ordinary expenses incident to the Research Student's work. Apparatus and material beyond what is included in the ordinary operations of the laboratory shall be charged to the Student, unless the Professor judges that such apparatus and material will be a useful addition to the laboratory. But it shall be in the power of each Professor to propose to the University Court in any particular case that these payments may be remitted in whole or in part. 2. In all matters of discipline the Research Student shall be under the control of the Professor in whose laboratory he works. 3. All papers arising out of work done in a laboratory shall be submitted to the Professor before publication, and in all such publications a due recognition of the laboratory shall be inserted.

VII. The title of Research Fellow may be conferred by the Senatus Academicus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Ordinance 25, Section XI., sub-section 8.

VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.

(2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus Academicus may determine.

(3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.

(4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of

Ordinance No. 25, Section XI., sub-section 8, provide such sums as it may think fit in aid of the expenses of special study or research.

*Research Fellow*—Emeritus Professor Lord Kelvin, G.C.V.O., 1900.

*Research Students*—Alfred Walter Stewart, B.Sc., 1901; John M. Cowan, B.A., M.B., B.C., 1901; Andrew Smith, 1902; Robert A. Houstoun, 1902; Alexander Wood, B.Sc., 1902; Dougald B. M'Quistan, M.A., 1902.

## *VII.—LIBRARIES, MUSEUM, BOTANIC GARDEN.*

### *UNIVERSITY LIBRARY.*

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Librarian is appointed by the University Court. The Library is under the immediate superintendence of a Committee consisting of three members of the University or others, not being members of Senate, appointed by the University Court, and of six members of Senate appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUING, ESQ., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about

8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the subscribers was inserted in the *Calendar* for 1879-80.

The WALKER-ARNOTT Botanical library of 970 volumes.

The Musical library of the late THOMAS L. STILLIE, ESQ., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3,000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

A collection of works, numbering over 600 volumes, relating to Mediaeval Philosophy, which formed part of the library of the late PROFESSOR VEITCH—presented by Mrs. Veitch.

A selection, consisting mainly of theological works and amounting to about 3,800 volumes, from the library of the late Rev. Alexander Robertson, who also left the residue of his means to found a lectureship in the University in defence of the Christian religion; 800 volumes of general literature from the library of the late F. A. ECK, ESQ.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; 700 volumes, including extensive histories of the Netherlands, books on universities and schools, and many theological works, presented by Professor J. E. B. MAYOR, D.D.; and a complete copy of Migne's *Patrologie* in 388 volumes, presented along with an oak bookcase by the subscribers as a memorial of the late Dr. W. P. DICKSON, Curator of the Library.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Roberton, LL.D. (2); and Alex. Whitelaw, Esq., M.P. (2).

The custody and management of the Library are regulated by Ordinance No. 64, and by the rules framed under that Ordinance and approved by the University Court on 14th November, 1895. The following are the principal regulations relative to the use of the Library:—

Books shall not be given out except to the borrower in person, or to some one having written authority from him.

It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee; and to call in any book from any borrower after the lapse of the period for which such borrower is entitled to retain it, upon receiving a written request to do so from any person entitled to the use of the Library. In the notice of recall a period of not less than three clear days shall be allowed for making the return, and the penalties leviable for neglect shall be specified in the notice.

The following classes of work, viz.:—Manuscripts, rare books or books in any way difficult to be replaced, works of reference, separate maps or plates, unbound music or parts of works, pamphlets or books not sufficiently protected by the binding, shall not be given out except on an order of, and under conditions to be fixed by, either (*a*) the Senate, (*b*) the Library Committee, or (*c*) three Members of the Library Committee, according as, in the discretion of the Librarian, the special circumstances of each case may require.

Each member of the following classes of readers shall be allowed to borrow, and to have in his, or her, possession at one time the undermentioned number of volumes, but not more:—

Each Member of the Senatus Academicus, thirty volumes.
Each University Lecturer, twenty volumes.
Each Assistant and Examiner, and each holder of a Teaching Fellowship, fifteen volumes.
The Librarian, ten volumes; and each Assistant-Librarian, five volumes.
Each Extra-Academical Teacher, recognized by the University Court, in the town in which the University is situated, ten volumes.
Each retired Principal or Professor, ten volumes.
Each Member of the University Court, during his tenure of office, ten volumes.
Each Member of the General Council of any Scottish University (and each Graduate under the age of twenty-one years) in each year in which he, or she, shall have paid a subscription to the Library of ten shillings and sixpence, six volumes.

Provided that no Member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the teachers or students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

Any Member of the General Council of any Scottish University shall be allowed to compound for the Library subscription by a single payment of Five Guineas, which shall secure to him, or her, for life the same privileges as would accrue from the annual payments.

It shall be in the power of the Library Committee from time to time to grant the use of the Library to persons who may not be Members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court. All grants under this section shall terminate with the close of the reading year, but shall be renewable if again applied for. Each special reader shall pay an annual subscription of ten shillings and sixpence, and shall be entitled to borrow six volumes at one time, but not more.

Subject always to the provision as to the return of books for the annual inspection, all persons entitled to the use of the Library under the foregoing regulations shall have the right to retain each book borrowed during the winter session for one month, and each book borrowed during the summer session for two months, from the date of borrowing ; and may further retain each book until it shall have been recalled by the Librarian.

Every Matriculated student, or other Student admitted by ordinance to the use of the Library, shall be entitled to have in his, or her, possession at one time, during the winter session, four volumes but not more, and during the summer session and vacation, six volumes but not more. Every student shall have the right—subject to the return of books for the inspection—to retain any book during the winter session for two weeks, and during the summer session for four weeks, from the date of borrowing, and may further retain each book until it shall have been recalled by the Librarian. But no student shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

During the winter session such students only as are attending the English Literature classes shall be allowed to borrow works of fiction in English, and then only to the extent of two volumes at one time. During the summer session and vacation students may borrow three volumes of fiction at one time, but not more.

The reading term for Students, Members of General Council, and Special Readers, shall begin with the commencement of the winter session in each year, and terminate with the close of the autumn vacation following.

Readers shall not be allowed to borrow books in more than one capacity.

A general inspection of the Library shall take place in April, beginning with the seventh, and continuing for eight lawful days thereafter.

All works whatever, and by whomsoever borrowed, shall be returned to the Library before the beginning of the period of the annual inspection under the penalties hereinafter mentioned. The Library shall be wholly closed during the time of the inspection.

If any person shall retain any volume after the commencement of the period of the annual inspection, such person shall incur a fine of one shilling for each volume; and in the event of any volume not being returned before the close of one week after the last day of the inspection, the fine shall be repeated from week to week until the volume is returned, or until the total amount of the fine shall have reached the sum of ten shillings.

If any person, when required by the Librarian to return a book, shall fail to do so before the expiry of the time specified in the notice, such person shall incur a fine of one shilling for each volume, and thereafter a further penalty of sixpence per day so long as the volume is not returned, or until the total amount of the fine shall have reached the sum of ten shillings.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured, while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of the Teaching Staff, shall otherwise be admitted to the interior of the Library without the special permission of the Chairman of the Library Committee or the Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the winter session from 11 A.M. till 2.30 P.M., except the Christmas and other holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the summer it is open on Mondays, Wednesdays, and Fridays from 11.30 A.M. till 2 P.M.

## *CATALOGUES.*

The General Alphabetical Catalogue may be consulted in the Catalogue Room by Readers, on application to the Librarian.

Students and Graduates who are engaged in special research will, on similar application, have access to the Classified Catalogues. These catalogues were arranged by the late Professor Dickson, who held the office of Curator of the Library, and the expenses incurred by him in connection with their preparation were defrayed by the late Dr. A. B. M'Grigor.

## *READING-ROOM.*

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the winter session from 9 A.M. till 4.30 P.M., and during the summer session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection ; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student who shall at the beginning of the session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without possessing a voucher.

All readers are required to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the Room (and Vestibule) with as little noise as possible. Readers shall exhibit their vouchers when asked; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to one of the Assistant-Librarians in the Library.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

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## *Donations to the University Library.*

### List of Donations from 1st March, 1901, to 28th February, 1902.

Accademie dei Lincei, Roma.—Atti. Serie 5ª. Memorie. Classe di scienze morali. Parte 1ª. VII. Parte 2ª. IX. Classe di scienze fisiche. I., II., III.—Rendiconti. Classe di scienze fisiche. X. 1901. Classe di scienze morali. X. 1901.

Accademia delle scienze fisiche e matematiche di Napoli.—Atti. Serie 2ª. X.—Rendiconto. Serie 3ª. VII. 1900.

Accademia Pontaniana, Roma.—Atti. XXX. 1900.

The Admiralty.—Greenwich observations. 1898.—Spectroscopic and photographic results 1898.—Second ten year catalogue of 6892 stars for 1890. Annals of the Cape of Good Hope Observatory. V., VIII. 2.—Catalogue of 1905 stars for the equinox, 1865.—Results of meridian observations, Cape of Good Hope during 1866-1870.—Report of the health of the Navy for 1899 and 1900.

American Academy of Arts and Sciences.—Proceedings. XXXVI. 24-26.

Army Medical Department.—Report for 1899.

Asiatic Society of Bengal.—Catalogue of Sanskrit books and MSS. in the Oriental Library. III.—Bibliotheca Indica. New series. 971-1000.

Australian Museum.—Records. IV. 1-5. Reports for 1899 and 1900.

Berwickshire Naturalists' Club.—Proceedings. XVII. 2.

Board of Education.—Bradley, Introduction to collection of illuminated letters.—Catalogue of photographs of historical and other studies.—Classified list of photographs of decorative art.—Directory for Science and Art schools. 1901-1902. —List of successful honours candidates. 1900.—National Art Library catalogue of books on heraldry.—Catalogue of engineering collection in Victoria and Albert Museum. Part 1.—National competition, 1901. List of students rewarded.—Prospectus of College of Art, 1901-1902.—Prospectus of Whitworth scholarships, 1901.—Report. 1900-1901. 3 vols.—Return of organisations for secondary education.—Report on schools under Welsh education act, 1889.—Return on technical education, 1898-1900.

Boston Public Library.—List of books added. 1900-1901.

Calendars, programmes, or reports have been received from the following institutions:—Aberdeen University; Birmingham University; Bombay University; Brown University, U.S.; Belfast Queen's College; Calcutta University; California University; Canterbury College, New Zealand; Cape of Good Hope University; Catholic University of America; Columbia University, New York; College of Preceptors, London; Cumberland University; Dalhousie University, Halifax; Dartmouth College, U.S.; Durham College of Science; Durham College of Medicine; Durham University; École Pratique des Hautes Études, Paris; Edinburgh University; Glasgow and West of Scotland Technical College; Guy's Hospital Medical School; Imperial University, Tokyo; Nebraska University; New York University; Owens College, Manchester; Pharmaceutical Society; Presbyterian College, Halifax; Princeton University; Queen's College, Cork; Queen's College, Galway; Queen's College and University, Kingston; M'Gill University, Montreal; Faculty of Medicine, M'Gill University; Robert College, Constantinople; R. Universita di Catania; R. Universita di Pisa; Royal College of Surgeons of England; Royal University of Ireland; St. Mungo's College, Glasgow; St. Petersburg University; South African College, Cape Town; Technical College, Sunderland; Technische Hochschule zu Aachen; Trinity College, London; Universidad de Buenos Ayres; University College, Bristol; Universidade de Coimbra; University College, Dundee; L'Université Laval, Canada; Université de Jassy; Université de Lille; University College, Liverpool; University College, London; University of London; Université de Lyon;

University of Gratz; University of Michigan; University of Missouri; University College, Nottingham; R. Universita di Padova; Universita di Pavia; University of Toronto; Faculty of Medicine, University of Toronto; University College of North Wales; University College of South Wales; University College of Wales; University of Vermont; University of Sydney; Victoria University, Manchester; Victoria University, Toronto; Yale University; Yorkshire College, Leeds; Wiener Universität.

Caledonian Medical Society.—Caledonian medical journal. IV. 7-10.

Cambridge Philosophical Society.—Proceedings. XI. 2-4.

Canadian Institute.—Transactions. VII. 1.

Clinical Society of London.—Transactions. XXXIV.

George Dickson, M.D.—Tuberculosis. I. 6, 8, 9.—Irving, Surgery of Huddersfield Infirmary for 23 years.—Glasgow Hospital Reports. I., II. 1898, 1899.

Direcion de Estadistica, Uruguay.—Comercio exterior movimiento de navegacion. 1900.

Edinburgh Mathematical Society.—Proceedings. XIX.

Fairmount Park Art Association, Philadelphia.—Twentieth-ninth annual report.

James Finlayson, M.D.—Janus. VI.—Dr. Sylvester Rattray.

General Assembly of the Church of Scotland.—Reports on the schemes of the Church, 1901.

Geological Survey of Canada.—Annual Report. XI. 1898. With maps.—Index to reports. 1863-1884.—Catalogue of Canadian birds. Part I.

Geological Survey of India.—Palaeontologia Indica. Ser. IX. Vol. III. 1. New series, I. 3.—Memoirs. XXX. 2, 4; XXXI. 1-3; XXXII. 1, 2; XXXIII. 1, 2; XXXIV. 1.—General report. 1900-1901.

Glasgow Pathological and Surgical Society.—Transactions. VII., VIII.

Governor of Bombay.—Observations made at the Observatory, Bombay. 1898-99. Report of the archaeological survey of Western India. 1899-1901.

Government of Mysore.—Epigraphia carnatica. VI.

Lieutenant Governor of Bengal.—Annals of the Botanic Gardens, Calcutta. Vol. IX. Part I.—Catalogue of Sanskrit MSS. in the Library of the Calcutta Sanskrit College. No. 14.—Notices of Sanskrit MSS. 2nd S. I. 3. Report on search of Sanskrit MSS. 1895-1900.

Imperial Department of Agriculture, West Indies.—Journal. II. 4.—Morrison, Bee-keeping in the West Indies.—Seedling canes at Barbados, and 2 other pamphlets. —Watt, Nature teaching.—West Indian bulletin. II. 1-3.

Institution of Civil Engineers.—Minutes of proceedings. CXLIII.-CXLVI.

Institution of Engineers and Shipbuilders.—Transactions. XLIV.

Institution of Mechanical Engineers.—Proceedings. 1900, 4; 1901.

Institution of Naval Architects.—Transactions. XLIII. 1901.

Iowa Geological Survey.—Annual report, 1900.

Johns Hopkins Hospital.—Bulletin. Nos. 108-123.

Johns Hopkins University.—University circulars. Nos. 144-155.—American journal of mathematics. XXIII.—Lewis, Higher education in Kentucky. 1899.—Register for 1900-1901.—O'Harra, Geology of Allegany county. And 31 other dissertations.

Literary and Philosophical Society of Liverpool.—Proceedings during 1900-1901.

Lloyds Register of Shipping.—Lloyds register. 1901-2. 2 vols.—Rules and regulations. 1901-2. General report. 1901.

Local Government Board.—Report of the medical officer. 1899-1900.

Lords of H.M. Treasury.—Accounts of the Lord Treasurer of Scotland. III.—Journal of the House of Lords. 132.—Journals of the House of Commons. 155. Exchequer rolls of Scotland. XXI.—Register of the Privy Council of Scotland. 2nd S. III.—Acts of Parliament: Public, Local, and Private. 1901.

Messrs. MacLehose & Sons.—Transactions of the Franco-Scottish Society. 1900-1901.

Manchester Literary and Philosophical Society.—Memoirs and proceedings. XLV., XLVI. 1, 2.

Mineralogical Society.—Mineralogical magazine. No. 59.

Ministero della Pubblica Istruzione, Italia.—Le opere di Galileo Galilei. XI.

David Murray, LL.D.—The trial of the twenty-nine regicides, the murtherers of King Charles I.—Nippold, The papacy in the 19th century.

Natural History Society of Glasgow.—Transactions. VI. 1. 1899-1900.

Norwegian North Atlantic Expedition.—Zoology. XXVIII.

James Paton, F.L.S.—Report on Glasgow museums and galleries for 1900.

Very Rev. The Principal.—Delépine, Reprints of communications on pathological subjects.—Burgersdijk & Nierman's theological catalogue.—Hamilton, Elements of Quaternions. 2nd ed. II.

Professor Bower, D.Sc.—Agricultural ledger, Calcutta. 1900. 21-24. 1901. 1-8, 11, 12. Bulletin of the Botanical Department, Jamaica. VIII.—Bulletin of miscellaneous information, Trinidad. Nos. 26-32.—Department of Land Records N.W.S. & Oudh. Bulletin. 12-18.—The economist. XXXIV. 1876.—Imperfect sporangia in pteridophytes.—Morphology of spore-producing members. I., III., IV.—Records of the Botanical survey of India. I. 13.—Report on Botanic Gardens, Ceylon. 1900.—Report on Canadian experimental farms for 1900.—Report on the Botanic Gardens, Trinidad. 1900.—Report on New South Wales Botanic Gardens. 1899.—U.S. Department of Agriculture. Bulletin. Nos. 21-27.

Professor Cooper, D.D.—Transactions of the Aberdeen Ecclesiological Society. XII. 1897.—The study of local history.—Christian unity. Speeches before the General Assembly.—Seeking a right way: a sermon.—Mr. Carnegie's gift: a sermon.

Emeritus Prof. Sir William Gairdner, M.D.—Philosophical transactions. A. vols. 193-195. B. vol. 193.

Professor Gray, LL.D., F.R.S.—A treatise on physics. I. 1901.

Professor Hastie, D.D.—Gray and Tocher, Physical characteristics of the population of East Aberdeenshire.—Mitchell, In Western India. 1899.

Professor Jack, LL.D.—Proceedings of the London Mathematical Society. Nos. 738-766.

Emeritus Prof. Lord Kelvin.—7 volumes and 211 parts of volumes of scientific periodicals.

Professor Macewen, M.D.—Annals of surgery. 1899 and 1900.

Professor M'Kendrick, M.D.—Benedicti Despinozae epistola.—Burroughs, Wellcome & Co., Price list.—Canada: its history, productions and products.—Internationaler Congrèss gegen den Alkoholismus. 1901.—How to obtain patents for inventions.—Station zoologique d'Arcachon. Travaux des laboratoires. Année 1898. And 52 other pamphlets.

Professor Robertson, D.D.—Book of the Church of Scotland. 1898-1900.—The Bookman. Nos. 109-124.

Professor Young, M.D.—William Hunter.—The Hunterian Library.

Radcliffe Library, Oxford.—Catalogue of books added during 1901.

Royal Astronomical Society.—Monthly notices. LXI.

Royal Institute of British Architects.—Journal. VIII. 9-20; IX. 1-8.—Kalendar. 1901-1902.

Royal Irish Academy.—Proceedings. 3rd series. VI. 1-3; VII.—Transactions. XXXI. 8-11.

Royal Physical Society, Edinburgh.—Proceedings. 1899-1900.

Royal Scottish Academy.—Seventy-fourth annual report.

Royal Scottish Society of Arts.—Transactions. XV. 3.

Royal Society of Canada.—Proceedings and transactions. 2nd series. VI. 1900.

Royal Society of New South Wales.—Journal and proceedings. XXXIV.

Royal Society of Victoria.—Proceedings. XIII. 1-2: XIV. 1.

Reports have been received from the following libraries:—Aberdeen Public Library; Baillie's Institution Free Library; Boston Public Library, U.S.; John Crerar Library, Chicago; Dundee Free Libraries; Leeds Public Libraries; Newberry Library, Chicago; Newcastle-upon-Tyne Public Libraries; Sandeman Public Library, Perth; Stirling's and Glasgow Public Library; Public Library and Museums of Victoria; West Ham Public Libraries.

Secretary of State for India.—Epigraphia Indica. Vol. 3-7.—Census of India. Indexes of languages.—M'Crindle, Ancient India. 1901.—Archaeological survey of India. XXIV. 1.—Kalhana's chronicle of the kings of Kashmir. 2 vols.—Nisbet, Burma under British rule and before. 2 vols.—Report of the Sanitary Commissioner for India. 1899.—Report of Indian Plague Commission. 5 vols.—Scientific memoirs by medical officers. XII.—Stein, Archaeological explorations in Chinese Turkestan.—Wilson, Early annals of the English in Bengal. 1900.

Smithsonian Institution.—Annual report. 1899.—Report of U.S. National Museum. 1899.—Annual Report of the American Historical Association. 1899. 2 vols.—Report of the Bureau of American Ethnology. 1895-96. Part I.; 1896-97. Part I.—Annals of the Astrophysical Observatory. Vol. I.

Society of Antiquaries of Scotland.—Proceedings. XXXIV. 1899-1900.

Surgeon General, U.S. Army.—Report, 1900-1901.

Trustees of the British Museum.—Catalogue of printed books. Supplement. 9 parts.—Catalogue of African plants collected by Dr. Welwitsch. II. 2, 4.—Catalogue of the mesozoic plants. Jurassic flora. I.—A hand-list of birds. II.—Catalogue of the Schreiber collection of playing cards. 1901.—Catalogue of sculpture. II. —Catalogue of the Greek coins of Lycaonia, etc. 1900.—Catalogue of the Sinhalese MSS. 1900.—Catalogue of the Hebrew and Samaritan MSS. Part I.—Kenyon, Facsimiles of Biblical manuscripts. 1900.

U.S. Bureau of Education.—Report of the Commissioner. 1898-99. II. 1899-1900. I.

U.S. Department of Agriculture.—North American fauna. 16, 20, 21.—Hitchcock, Sources of the Agricultural imports of the United States.

U.S. Geological Survey.—20th annual report. 2-5, 7, and maps.—21st annual report. 1, 6, $6^2$.—Geological atlas of the United States. Folios 59-71. Report on Cape Nome gold region, Alaska.

Ungarische Statistische Central-Amt.—Statistisches Jahrbuch. N. F. VIII. Landwirthschaftliche Statistik. V.

Universidad de Chile.—Anales. 1901.

Université de Lyon.—Inauguration de l'Institut de Chimie. 1900.—Rentrée solennelle de l'Université. Nov. 1900.

Université de Toulouse.—Bulletin de l'Université. Fasc. 14.—Livret. 1900.—Combes, De la dation en paiement en droit romain.—Garrigou, Populations pastorals de Tarascon. And 2 other pamphlets.—Rey-Pailhade, Role du philothion dans l'action des medicaments.—Sermet, Le droit de grace.

University of Utrecht.—Actes de la troisième conference pour le droit international privé.—Riemens, Het symbolo-fideisme. And 9 other dissertations.—Jaarboek. 1900-1901.

Alliance of Presbyterian Churches.—Proceedings of 1st, 2nd, and 7th general councils.

Peter John Anderson, LL.B.—Roll of alumni in arts of the University and King's College of Aberdeen, 1596-1860.

Miss J. H. Anderson.—Kate Suter and the Old station-master.

Australasian Association for the Advancement of Science.—Report of the eighth meeting.

The Author.—Wilmans, Wonders of thought force.

Batavia Observatory.—Observations. XXII. 1.—Regenswaarnenungen in Nederlandsch-Indie. 1899 and 1900.

Mr. Lawrence Sluter Benson.—Progress in mathematics during 3000 years.

Mr. John M. Berry.—Constitutional Convention of Connecticut.

Bibliothèque Communale de Douai.—Catalogue. Histoire de France. II., III.

Bibliotheca da Universidade de Coimbra.—Archivo bibliographico. I.

Bibliothèque Royale de Belgique.—Catalogue de manuscrits. I.

Birmingham Free Libraries.—Index to Shakespeare Memorial Library. Part II.

Department of Mines, British Columbia.—Annual report for 1900.

British and Foreign Anti-Slavery Society.—Anti-slavery reports. 4th Ser. XX.

Brehon Laws Commissioners.—Ancient laws of Ireland. V., VI.

John Brown, B.Sc.—Nature. LXII., LXIII.

British Guiana Medical Association.—Low, Papers on malaria.

Professor W. C. Brögger.—Om de senglacial nivaforandringer i Kristianafeltet.

Brooklyn Institute of Arts and Sciences.—Science bulletin. I. 1.

William Bruce, M.D., LL.D.—Tenth report of the public health of Ross and Cromarty.

J. Y. Buchanan, F.R.S.—Chemical and physical notes.

Caird Memorial Window Committee from surplus funds.—Kantstudien. I.-VI.—Portrait of Principal Caird.

Sir James M. Campbell, LL.D.—Gazetteer of the Bombay Presidency. IX. 2 parts.

Cape of Good Hope Observatory.—Report for 1900.

Mr. S. R. Church, San Francisco.—Analysis of pig iron. 1900.

The City Chamberlain, Glasgow.—Municipal accounts, 1900-1901.—Queen Victoria. Glasgow's In memoriam.

Clerk of Senate's Office.—Coutts, Account of the University of Glasgow. Book of the Jubilee. 1451-1901.—Record of the Ninth Jubilee.

Clydesdale Horse Society.—Clydesdale stud book. XXIII.

Cobden Club.—Report and list of members. 1900.

George W. Colles, A.B.—Rotary transformers.

Columbia University, Washington.—University quarterly. III.—Catalogue of officers and graduates. 1754-1900.—Record of the graduates of the School of Graduate studies. 1894-1900.—Farquhar, Elements of unity in the Homeric poems.—Books on education in the libraries of the University.—Scisco, Political nativism in New York State. And 18 other dissertations.

Comitato per le Onoranze a Brioschi.—Opere matematiche di Brioschi. I.

Report of H.M.'s Commissioners for Paris Exhibition. 1900. 3 vols.

Corporation of the City of London.—Medal struck to commemorate the raising and equipment of the City of London Imperial Volunteers.

Professor Alexandre Corsi.—Sur un projet pour l'éxécution des jugements étrangers.

Mr. John Coutts.—Christ's Kingdom and the higher criticism.—The tree of life in the light of Revelation.

The Earl of Crawford. — Handlist of proclamations. III. Victoria. 1837-1901. Supplement. 1521-1765.—Catalogue of English newspapers. 1641-66.

P. Cudmore, B. H.—Prophecy of the 20th century. III.

Dartmouth College, U.S.—General Catalogue. 1769-1900.

Deering Harvester Co., Chicago.—Official retrospective exhibition of the development of harvesting machinery.

Delegates of the Clarendon Press.—Sexti Properti carmina. Recognovit I. S. Phillimore.

Mr. E. Derry.—Round the zodiac: sonnets.

Mr. J. M. Dewar.—Glasgow Exhibition guide in English, German, French, and Spanish.

Representatives of the late Emeritus Professor Dickson, D.D.—Theologische Literatur Zeitung. 26 Jahrgänge in 10 Bänden.—Meyer's Commentary on the New Testament. 11 vols. And 79 other books relating to theology. Also 32 bound vols. of pamphlets, besides a number unbound.

Direction de la Statistique de Buenos Ayres.—Annuaire. 1900.

Director General of the Medical Department, Japanese Navy.—Surgical history of the naval war between Japan and China.—Report of the health of the Navy for 1898.

Rev. William Duke, D.D.—Foxii Morzilli in Platonis Timaeum Commentarii. With the book stamp and 2 signatures of Henry Sinclair, Dean of Glasgow, 1550.

William Durie, barrister.—On the law of tidal and inland waters.

École pratique de Droit de Bordeaux.—Campana, L'enseignement du droit au point de vue pratique.

Edinburgh South African Hospital.—Report of the work of the Hospital. 1901.

Professor Émile Ernault.—Une vielle histoire: l'épisode de Glaucos.—Ménardière, Souvenirs de l'alliance entre la France et l'Écosse.

Faculté Bohème de Médécine.—Archives de médécine clinique. II. 4-6. III. 2.

Faculty of Physicians and Surgeons of Glasgow.—Duncan, Alphabetical catalogue of the Library. II. 1901.

Mr. Ferrar Fenton.—St. Paul's Epistles in modern English.

Rev. R. Menzies Ferguson, M.A.—Hume, Practice of sanctification.

Franklin and Marshall College.—Obituary record. Nos. 1-5.—List of graduates.

T. Lindsay Galloway, M.A.—The Campbeltown colliery and light railway. 1902.

M. Jules Garçon.—La bibliographie industrielle.

M. Émile Gielkens.—Nos moeurs.

Glasgow Obstetrical and Gynaecological Society.—Transactions. II. 1901.

Le Comte Goblet d'Alviella.—Le neuvième cinquantenaire de l'Université de Glasgow.

Vve. J. B. André Godin.—Le devoir: revue des questions sociales. 1899, 1900, 1901.—Le Familistère illustré. 1880-1900.—Fabre, Robert Owen.

Professor Dr. Fr. Goppelsroeder.—Capillaranalyse. 1901.

Government of the N.W. Provinces and Oudh.—Annual report of the Archaeological survey circle. 1900-1901.

Rev. David Graham.—John Newland, founder of Bathgate Academy.

Mr. James Green.—Causes of the war in South Africa. 1900.

Mr. Thomas Greenwood.—Edwards, Memoirs of libraries. Vol. I.

The Town-Clerk, Guildhall, London.—Calendar of letter-books. Letter-book C. 1901.

Professor George G. Henderson, D.Sc.—Chemical industries of the West of Scotland.

Professor W. A. Herdman, D.Sc.—Fishes and fisheries of the Irish Sea.

The Hague Conferences on International Private Law. Actes de la $1^e$, $2^e$, et $3^e$ Conferences.

Conférence Internationale de la Paix, La Haye, 18th Mai-29 Juillet, 1899.

Hunterian Society, London.—Transactions. 1899-1900.

The Manager, Royal Infirmary, Glasgow.—Catalogue of the Pathological Museum. 1901.

Intercolonial Medical Congress of Australasia.—Transactions of the fifth session. 1901.

M. Charles Janet.—Notes sur les fourmis et les guêpes. 15 papers.—Études sur les fourmis, etc. 4 papers. And 6 other pamphlets.

A. A. Jack, M.A.—Methuen, Peace or war in South Africa. 1901.

William Jacks, LL.D.—James Watt. 1901.

Dr. Henry Jackson.—Texts to illustrate the history of Greek philosophy.

Professor Edmund J. James, Ph.D.—Relation of our universities to higher commercial education.

Mr. George James.—Bacon-Shakespeare pamphlets. VII.

Lieut.-Col. Wm. Johnston, M.D.—Graham, Sure methods of improving health. 1838.

Mr. William Kelly.—The Revelation expounded.

Joseph Spencer Kennard, Ph.D., D.C.L.—The fallen god: and other essays. 1901.—Kennard, Psychic power in preaching.—A liberal education. 1901.

Robert Kennedy, M.D.—Restoration of co-ordinated movements after nerve crossing.

Krakow Academy of Science.—Catalogue of Polish scientific literature. I. 1-3.—Bulletin international. 1901.

Professor Wilhelm Kubitschek.—Die Mosaikkarte Palästinas.

Professor W. R. Lang, D.Sc., Toronto.—A century of chemical progress.—Chemistry in relation to the arts.

Professor S. S. Laurie, LL.D.—Ethica. Traduit par G. Remacle. 1902.

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Professor A. Liversidge, LL.D.—Crystalline structure of silver nuggets.

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Professor Richard Lodge.—The close of the Middle Ages. 1901.—How should history be studied?

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Mr. Archibald M'Cowan.—The prisoners of war.

George Macdonald, M.A.—Forty-six volumes of pamphlets.

Mr. William O. M'Dowell.—Allen, Washington; or the revolution. A drama.

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Medical Faculty, M'Gill University.—Shepherd, Medical notes of a trip to Cuba. And 3 other pamphlets.

William Macgillivray, W.S.—A memorial tribute to William Macgillivray, LL.D.

Miss MacLehose.—M'All, Discourses. 2 vols.—Skinner, Theological works. 2 vols.—Livingstone, Exploration du Zambèse. And 19 vols. of other books.

Alexander Maclennan, M.B.—Braus, Die metotischen Urwirbel de Selachier.—Braus, Die Muskeln und Nerven der Ceratodurflosse.—Münchener medicinische Wochenschrift. 1901.

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John C. M'Vail, M.D.—Tenth report to the County Council of Dumbarton.—Tenth report to the County Council of Stirling.—The ethics of preventive medicine.

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Mr. M. C. Markham.—Railroad rates.—Mississippi river and other competition.

Sir James Marwick, LL.D.—The water supply of the city. 1901.

Massachussetts Institute of Technology.—Inauguration of President, Oct. 24, 1900.

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Middlesex Hospital.—Reports for 1899.

William Galbraith Miller, LL.B.—The position and wants of the Faculty of Law in the University of Glasgow.
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Professor Georgios Mistriotes, Athens.—Welches ist das älteste Drama des Sophocles.
T. K. Monro, M.D.—Three cases of nervous diseases. And three other medical pamphlets.
Professor Dr. V. E. Mourek.—Dictionary of Bohemian and English. 2 vols. Four other linguistic works and 26 pamphlets.
Mr. David B. Mungo.—Tentatives. 1898.
A. Campbell Munro, D.Sc.—Tenth report to the County Council of Renfrew.
Dr. James A. H. Murray.—Evolution of English lexicography.
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Theo. G. Pinches, LL.D.—Notes on recent discoveries in Assyriology. And 42 other papers relating to Assyriology.
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Queensland Geological Survey.—Bulletin. Nos. 13-17. Five reports on various goldfields.
Mrs. Peter Redpath.—Catalogue of a collection of historical tracts, 1561-1800. Collected by Stuart J. Reid.
Dr. Thomas Reid.—Oeuvres compléte de Huygens. IX.
Arthur Roberts, M.D.—Use and abuse of Harrowgate mineral waters.
Alexander Robinson, B.D.—The Saviour in the newer light. 2nd edition.—Old and new certainty of the Gospel.
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Professor Raymond Saleilles.—De la déclaration de la volonté.
Bishop of Salisbury.—Episcopate of Charles Wordsworth. 1899.
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President Seelye, Smith College.—Celebration of the Quarter-Centenary of Smith College.
Dr. Isidor Singer, New York.—A historic Jewish banquet.
Rev. James Smith, B.D.—A pilgrimage to Italy. 1899.
Lionel Morton Smith, M.A.—Hymn by Lord Macaulay.
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Dr. Solomon Solis-Cohen.—Therapeutic uses of the thymus gland. And two other pamphlets.
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Mr. J. R. Tutin.—Notes to Crashaw's "Delights of the Muses," etc.
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University of Pennsylvania.—Proceedings of commencement. June 12, 1901.
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Professor Virchow.—Zur Erinnerung. Blätter des Dankes.
James J. Walsh, Ph.D., M.D.—Science in the Philippines: a review.
Miss Margaret Warrender.—The scapegoat: selections from articles on the case of Sir Henry Colville.
Thomas H. Weir, B.D.—Brink, Vost-Indische dames en heeren. II.—Amicis, Morocco: its people and places. 1882. Kerr, Pioneering in Morocco. 1894.—Hardman, Spanish campaign in Morocco. 1860.—Taftazani, Sharah Sharaf Zanjani, Mutauwal. 1888.
Mr. Adair Welcher.—The art work of the fire.—A dream of realms beyond us.
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Professor Horatio S. White, LL.D.—Cornell University register, 1901-2.—Cornell and Ithaca views. 2 parts.
E. M. Wilcox, Ph.D.—Report on Agricultural Experiment Station, Stillwater, Okla. 1900-1901.
A. M. Williams, M.A.—Goldsmith's Vicar of Wakefield. Two editions.—Journal of education, 1901.
Rev. A. Wallace Williamson, D.D.—Dr. John Macleod: his work and teaching.
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## *DIVINITY HALL LIBRARY.*

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

## *HUNTERIAN MUSEUM.*

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 32. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried.

The Hunterian Museum is under the immediate superintendence of the Museums Committee, consisting of two members of the University or others, not being members of Senate, appointed by the University Court, and of four members of Senate, appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports. The Keeper of the Museum is appointed by the Trustees, who, in terms of Dr. Hunter's will, were the Principal and Professors of the College: their functions are now discharged by the University Court. Keeper — Professor John Young, M.D.; Under-Keeper, John Mackay; Under-Keeper in Pathological Department, J. H. Teacher, M.B., C.M.

Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 P.M. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence.

1. *Stevenson Catalogue of Greek Coins.* Pts. I. and II. By Geo. Macdonald, M.A. With 62 plates. Price £6 6s.
2. *Tituli Hunteriani: Catalogue of Roman Stones.* By James Macdonald, LL.D., Annan. Price 10s. 6d.
3. *Bellahouston Catalogue of Anatomical and Pathological Preparations.* By J. H. Teacher, M.B., C.M. 2 vols. 8vo. Price to students, 2s.
4. *William Hunter: Physician, Anatomist, Founder of the Hunterian Museum.* By Professor John Young, M.D.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

### *Donations to Museum.*

The following donors have contributed to the Museum during the past year:—

Mr. George A. Allan, Mrs. Clayton, Mr. Clunie, Professor Cooper, Mrs. Ferguson, Sir William T. Gairdner, K.C.B., Professor Hastie, Messrs. Campbell Henderson, Angus Macdonald, and W. J. Rutherford, Miss Smith, Dr. M. M. Sinclair, Professor G. R. Thompson, and Mr. Arthur Young.

In addition to the annual gifts by friends, among whom in former years were conspicuous Mr. Robert Gray, Dr. D. Robertson, Rev. Dr. H. Crosskey, J. Lumsden of Arden, the late Geo. Paterson, Prof. J. Nichol, Captain W. Ramsay, Dr. R. Walker, D. A. Frew, the following large collections have been added:—In 1875 Miss Brown of Lanfine divided her father's mineral collection between the Universities of Glasgow and Edinburgh: in 1896 she gave a further group of polished amethyst, marble, and jade cups and tessaræ, with some enamels; in 1898 she bequeathed a signed copy of the Solemn League and Covenant, a cabinet of minerals, antiquities from various localities, and the portrait of her father, Dr. Brown, now in the Museum Hall. The family of the late F. A. Eck, Esq., of Hollybush, presented his collection of minerals, over 3000 specimens, one cabinet representing the minerals of Central and Southern America, the other containing European specimens. To this Miss Eck added, in 1896, 150 precious stones. The antiquities of Peru, etc., are well represented. In 1895, T. Graham Young, Esq., of Limekilns, presented a large series of Etruscan, Greek, and Roman pottery, as well as of medieval ceramics and glass. In 1899 Mr. and Mrs. Campbell of Tullichewan gave an important group of vases, and several interesting specimens were presented by Mrs. Eustace Smith, of Algiers. All these, with a previous selection of Cyprus pottery and glass, the gift of Robert Walker, Esq., of Lethamhill, are shown in the Library. In 1888 the Governors of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological Museum of the Andersonian University (later known as Anderson's College, and now merged in the Technical College), the space being required for collections bearing on subjects taught in the College. Technical students have admission to the Hunterian Museum for purposes of study. The collection so transferred, of great value and extent, represents the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian is also under great obligations.

James Stevenson, Esq., of Hailie, has defrayed the cost of the Catalogue of Greek Coins, and the Bellahouston Trustees that of the Anatomical Catalogue. The Catalogue of the Printed Books is completed in manuscript, as is that of the MSS. in the Library. Rev. Thomas Weir, B.D., prepared the Catalogue of Syrian MSS. published by the Asiatic Society of London. Other catalogues are in course of preparation.

## *BOTANIC GARDEN.*

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the University. The removal of the University to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium-Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the University. Suitable buildings for the Botanical department have now been erected within the University grounds, and include Lecture Room, Museum, Herbarium, Laboratories, and other rooms.

## *MARINE BIOLOGICAL ASSOCIATION OF THE WEST OF SCOTLAND.*

The station of the Association is situated near Keppel Pier, in the island of Cumbrae, and was opened in May, 1897. A constitution was adopted at a meeting of the Association held on 15th January, 1901. The chief object which the promoters have in view is to afford opportunities for the investigation of the Marine Fauna and Flora of the district known as the Clyde Sea Area, or of other parts of the West Coast of Scotland. A practical laboratory has been provided and equipped, and one of the tables in it, for which the University Court subscribes, is called the University Table. The nomination of students to the privilege of working at this table is made by the Senate on the report of the Professors of Natural History and Botany. Applications should be addressed to the Clerk of Senate.

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## *VIII.—GRADUATION IN THE SEVERAL FACULTIES.*

### *EXAMINERS.*

#### **Preliminary Examinations in Arts, Science, and Medicine.**

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, Section IV., as supplemented by Ordinance No. 43, Section I. The Joint-Board holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at each University in rotation in the following order:—Edinburgh (1901-2), Glasgow (1902-3), Aberdeen (1903-4), St. Andrews (1904-5). It consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University, according to the scheme printed on p. 165. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University makes special arrangements for the examination of its own candidates.

| UNIVERSITY. | 1893 and every Fourth Year thereafter (1905). | 1894, and every Fourth Year thereafter (1902). | 1895, and every Fourth Year thereafter (1903). | 1896, and every Fourth Year thereafter (1904). |
|---|---|---|---|---|
| ST. ANDREWS, . | English (Professor).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Professor or Lecturer). | English (Professor).<br>Classics (Professor).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Additional Examiner). | English (Additional Examiner).<br>Classics (Professor).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Additional Examiner). | English (Additional Examiner).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Professor or Lecturer). |
| GLASGOW, . . . | English (Additional Examiner).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Professor or Lecturer). | English (Professor).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Professor or Lecturer). | English (Professor).<br>Classics (Professor).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Additional Examiner). | English (Additional Examiner).<br>Classics (Professor).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Additional Examiner). |
| ABERDEEN, . . . | English (Additional Examiner).<br>Classics (Professor).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Additional Examiner). | English (Additional Examiner).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Professor or Lecturer). | English (Professor).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Professor or Lecturer). | English (Professor).<br>Classics (Professor).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Additional Examiner). |
| EDINBURGH, . . | English (Professor).<br>Classics (Professor).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Additional Examiner). | English (Additional Examiner).<br>Classics (Professor).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Additional Examiner). | English (Additional Examiner).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Professor).<br>Modern Languages (Professor or Lecturer). | English (Professor).<br>Classics (Additional Examiner).<br>Mathematics and Dynamics (Additional Examiner).<br>Modern Languages (Professor or Lecturer). |

### Degrees in Arts.

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

### Degrees in Science.

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

### Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time ; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

### Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional examiners appointed by the University Court.

### Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

## *REGULATIONS FOR GRANTING DEGREES.*

### I. GRADUATION IN ARTS.

### Regulations applicable to all who have entered on their Academical Course since 1st October, 1892.

The conditions on which the Degree of Master of Arts is now conferred are regulated by Ordinances No. 11,[1] No. 44, No. 148, No. 160, and No. 168 of the Universities Commission (1889), the principal provisions of which are the following :—

I. The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine ; and shall close not later than the tenth day of the following April.

The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the Professors, or by Lecturers appointed under Ordinance No. 17 (Regulations as to Assistants and Lecturers).

II. The Curriculum for the Degree of Master of Arts (M.A.) shall extend over not less than three winter sessions, or two winter sessions and three summer sessions.

### Preliminary Examination.[2]

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects :—

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[1] This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 477-485, and the modifications made by Ordinance No. 44 were inserted in italics in the *University Calendar* for 1894-95.

[2] Supplementary Regulations issued by the Joint Board on 31st January, 1902, have been inserted in smaller type at the points in the ordinances to which they relate.

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following :—Latin or Greek (if not already taken), French, German, Italian (or such other language as the Senatus Academicus may approve), Dynamics.

Under this sub-section the Senate has approved of (1) Japanese, (2) Spanish. Any candidate who proposes to be examined in Japanese or Spanish or in any other language than the six mentioned in the Ordinance is required to make intimation to the Senate before 1st February or 1st July for the Spring and Autumn Examinations respectively.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

In the case of a foreign student, whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint-Board of Examiners may deem sufficient.

The Joint-Board has issued the following directions showing the character of the papers to be set in English :—

English will include (*a*) Grammar, (*b*) Composition, (*c*) Literature, (*d*) History, and (*e*) Geography.

- (*a*) Grammar will include Analysis, Parsing, Derivation, and Correction of Sentences.
- (*b*) Composition will include an Essay and Paraphrasing.
- (*c*) Literature will comprise a knowledge of certain prescribed books of two or three writers. Questions requiring a general knowledge of the life and works of the greater writers will not be set; but one or two questions may be set, giving an opportunity to candidates who have read widely in English Literature to show their knowledge. The prescribed books will be:—For 1902, Shakespeare, *As you Like It*; Lamb, *First Essays of Elia*; Dickens, *Barnaby Rudge*. For 1903, Shakespeare, *Coriolanus*; Scott, *Fortunes of Nigel*; Carlyle. *Essay on Burns*.
- (*d*) History will include a knowledge of one of the three following periods, questions in each of which will be set in each examination, viz.: The outlines of the History of both England and Scotland (*a*) from the Roman Occupation to 1603; (*b*) from 1603 to the Union of the Parliaments in 1707; (*c*) from the Union of the Parliaments to the Reform Bill of 1832.
- (*e*) Geography will include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin

or Greek. The higher standard shall not be lower than that presently [before October, 1892] adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

The Latin examination on the higher standard will include Translation, Prose Composition, Grammar, and Sentences.

The Greek examination on the higher standard will include Translation, Sentences (or an easy passage of continuous English Prose, set either as an alternative or as a substitute), and Grammar.

The passages for translation both from Greek and Latin will include Prose and Verse.

The Latin examination on the lower standard will include Translation and Parsing, Prose Composition, Grammar, and Sentences.

The Greek examination on the lower standard will include Translation, Sentences, and Grammar.

In the Latin and the Greek papers both on the higher and lower standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

Candidates who, having taken in Latin or Greek the examination on the higher standard, have failed to pass on that standard, but have obtained a percentage of marks equivalent to a pass on the lower standard, may be held by the Board to have passed the examination on the lower standard.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

For the examination in French and German—

Two papers shall be set, both in French and German—an hour and a half being allowed for the first paper, and two hours for the second; the first paper will contain a passage for translation from English into French or German, with some short sentences of an idiomatic character; the second paper will contain a set of grammatical questions, two passages for translation into English (one in verse, one in prose), and a selection of literary or philological questions, from which the candidate will be allowed to choose *one only*.

The questions on Literature will be confined, year by year, to certain groups of authors, as in the following scheme, viz.:

FRENCH.—(i.) In October, 1902 (17th century)—Pascal, Descartes, Corneille, Racine, Molière, Boileau, La Fontaine, Madame de Sévigné, Bossuet, Fénelon, La Rochefoucauld, La Bruyère. (ii.) In April and October, 1903 (19th century)—Chateaubriand, Madame de Staël, Lamartine, Victor Hugo, Alfred de Musset, Alexandre Dumas, George Sand, Balzac, Prosper Mérimée, Guizot, Thiers, Mignet, Michelet.

GERMAN.—(i.) In October, 1902—Klopstock, Wieland, Lessing, Herder, Bürger, Voss, Friedrich Leopold Stolberg, Hölty, Leisewitz. (ii.) In April and October, 1903—Jean Paul, the Schlegels, Novalis, Tieck, Arnim, Brentano, Grillparzer, Heine, Uhland.

(6) Mathematics on the lower standard shall comprise—(*a*) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (*b*) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (*c*) Geometry: Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's

will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the intermediate standard shall include the following, in addition to the subjects included in the lower standard, viz.:—(*a*) Euclid: Book VI., Propositions 1—19, or Geometry equivalent thereto. (*b*) Algebra: Quadratic Equations, Ratio and Proportion. (*c*) The Trigonometry of Right-angled Triangles.

(8) Mathematics on the higher standard shall, in addition to what is included on the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with Deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

In the examination in Mathematics on the higher and intermediate, and on the lower standards each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

The papers in Mathematics on the higher standard and on the intermediate standard will be devoted to the various subjects comprised in them as nearly as possible in the following proportions: two-fifths to Geometry, two-fifths to Algebra (including Arithmetic, if thought desirable), and one-fifth to Trigonometry.

Candidates for the higher standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass-mark for candidates on the intermediate standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the intermediate standard; but such candidates will receive credit for any question they may answer.

The paper in Mathematics on the lower standard will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to Geometry, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

(9) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on Dynamics will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it. As far as possible each question will consist of two parts, one of which will be a numerical or other simple illustrative example of the principle with which the other part of the question deals. About one-seventh of the paper will be devoted to Kinematics, and the remainder of the paper will be assigned to Kinetics, Statics, and Hydrostatics in as nearly as possible equal proportions.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Dynamics shall include the following:—(*a*) *Kinematics.* Displacements, velocities and accelerations of a moving point, with their compositions and resolutions. Translation of a rigid body. Relative velocity of two moving points. (*b*) *Kinetics.* The laws of motion. Momentum, force, energy, work—their measures in the British and C.G.S. systems of units. Change of units. Rectilinear motion of a particle under the action of constant forces. Free motion of a body under gravity, including projectiles. Atwood's machine. Impulsive forces. Direct impact of smooth spheres. (*c*) *Statics.* Composition and resolution of co-planar forces. Theory of co-planar couples. Conditions of equilibrium of forces in one plane. Centre of mass. Friction. Machines. Application of the principle of work to machines. (*d*) *Hydrostatics.* Definitions of *solid*, *fluid*, *liquid*, *gas*. Viscosity. Measure of the pressure at a point of fluid. Law of equable transmission of pressure. Laws of variation of pressure in heavy liquids. Resultant pressure of a heavy liquid on a plane surface, including the centre of pressure of a plane surface. Principle of Archimedes. Experimental determination of the densities of solids, liquids, and gases. Atmospheric pressure. The barometer. Boyle's Law. The siphon, pumps for liquids, air pumps, and the diving-bell.

Questions may be set which involve the Trigonometry of Right-angled Triangles.

(10) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may *offer himself for re-examination* as often as may be necessary *to satisfy this condition.*[1]

IV. (1) Attendance on any class shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. *Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that* (a) *no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination; and* (b) *no student shall be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section* xxv. *hereof, for three academic years after he has completed his Preliminary Examination.*[1]

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the sub-section immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has passed in Mathematics on the higher standard or on the intermediate standard.

V. (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.[2]

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[1] The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 28th May, 1894, and came into force on 1st October, 1894. The ordinance provides that the alterations on Sections III. (10) and IV. (1) shall be held to have come into force on 1st October, 1892.

[2] For dates of Preliminary Examinations see Table on page 172.

## TABLE OF PRELIMINARY EXAMINATIONS FOR DEGREES IN ARTS, SCIENCE AND MEDICINE, TO BE HELD DURING SESSION 1902-1903.

### I. ARTS AND SCIENCE.

| Fee. | Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date. | Subject. | Dates of Examinations and Hours at which the various Papers will be set. | |
|---|---|---|---|---|
| 10s. 6d.<br>10s. 6d. | 8th September or 6th March. | English (1st Paper), | Friday, 26th September, 9 to 11 a.m. | Friday, 27th March, 9 to 11 a.m. |
| | | Higher Latin (1st Paper), | Friday, 26th September, 12 noon to 2 p.m. | Friday, 27th March, 12 noon to 2 p.m. |
| | | Lower Latin, | Friday, 26th September, 3 to 6 p.m. | Friday, 27th March, 3 to 6 p.m. |
| | | English (2nd Paper), | Saturday, 27th September, 9 to 11 a.m. | Saturday, 28th March, 9 to 11 a.m. |
| | | Intermediate and Higher Math. (1st Paper), | Saturday, 27th September, 12 noon to 2 p.m. | Saturday, 28th March, 12 noon to 2 p.m. |
| | | Lower Greek, | Saturday, 27th September, 3 to 6 p.m. | Saturday, 28th March, 3 to 6 p.m. |
| | | Higher Latin (2nd Paper), | Monday, 29th September, 9 to 11 a.m. | Monday, 30th March, 9 to 11 a.m. |
| | | Intermediate and Higher Math. (2nd Paper), | Monday, 29th September, 12 noon to 2 p.m. | Monday, 30th March, 12 noon to 2 p.m. |
| | | Lower Mathematics | Monday, 29th September, 3 to 6 p.m. | Monday, 30th March, 3 to 6 p.m. |
| | | Higher Greek (1st Paper), | Tuesday, 30th September, 9 to 11 a.m. | Tuesday, 31st March, 9 to 11 a.m. |
| | | French (1st Paper), | Tuesday, 30th Sept., 12 noon to 1.30 p.m. | Tuesday, 31st March, 12 noon to 1.30 p.m. |
| | | Dynamics, | Tuesday, 30th September, 3 to 6 p.m. | Tuesday, 31st March, 3 to 6 p.m. |
| | | Higher Greek (2nd Paper), | Wednesday, 1st October, 9 to 11 a.m. | Wednesday, 1st April, 9 to 11 a.m. |
| | | French (2nd Paper), | Wednesday, 1st October, 12 noon to 2 p.m. | Wednesday, 1st April, 12 noon to 2 p.m. |
| | | German (1st Paper), | Wednesday, 1st October, 3 to 4.30 p.m. | Wednesday, 1st April, 3 to 4.30 p.m. |
| | | German (2nd Paper), | Thursday, 2nd October, 9 to 11 a.m. | Thursday, 2nd April, 9 to 11 a.m. |
| | | Italian (1st Paper), | Thursday, 2nd October, 12 noon to 1.30 p.m. | Thursday, 2nd April, 12 noon to 1.30 p.m. |
| | | Italian (2nd Paper), | Thursday, 2nd October, 3 to 5 p.m. | Thursday, 2nd April, 3 to 5 p.m. |

### II. MEDICINE.

| | | | | |
|---|---|---|---|---|
| 10s. 6d.<br>10s. 6d. | 8th September or 6th March. | English, | Friday, 26th September, 9 a.m. to 12 noon. | Friday, 27th March, 9 a.m. to 12 noon. |
| | | Latin, | Friday, 26th September, 3 to 6 p.m. | Friday, 27th March, 3 to 6 p.m. |
| | | Greek, | Saturday, 27th September, 3 to 6 p.m. | Saturday, 28th March, 3 to 6 p.m. |
| | | Mathematics, | Monday 29th September, 3 to 6 p.m. | Monday, 30th March, 3 to 6 p.m. |
| | | French, | Tuesday, 30th September, 12 noon to 3 p.m. | Tuesday, 31st March, 12 noon to 3 p.m. |

(2) The Joint-Board of Examiners to be appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this ordinance.

Under this sub-section the Joint-Board of Examiners has resolved as follows:—For the Preliminary Examination in Arts and Science the Higher and Honours Grade Leaving Certificate Examinations of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the higher standard in each of these subjects, as prescribed by the Arts Ordinance, and the Lower Grade Certificate Examinations to the lower standard; the Higher and Honours Grade Leaving Certificate Examinations in English, in Modern Languages, and in Dynamics will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department, may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other examinations are in fact equivalent thereto.

Under this sub-section the Joint-Board has resolved as follows:—

(*a*) A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

(*b*) A Certificate of having passed in the Honours or First Division in English in the London University Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination; and the Joint-Board also accepts, for the Preliminary Arts and Science Examination (1) London University Matriculation Mathematics as equivalent to Lower Mathematics; (2) London University Matriculation Mechanics as equivalent to Dynamics; and (3) London University Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

(*c*) Oxford University Senior Local Examinations, if passed with distinction, will be accepted as exempting *pro tanto* in Higher Latin, Higher Greek, French, German, and Intermediate Mathematics; also in English, provided that in English the candidate has passed with distinction in divisions (*a*), (*b*), and (*c*); a pass without distinction will be accepted *pro tanto* for Lower Latin, Lower Greek, and Lower Mathematics.

(*d*) Oxford University Higher Examination for Women will be accepted as exempting *pro tanto* for the Arts and Science in the case of Higher Latin, Higher Greek, English, and Lower Mathematics; and, if with distinction, for French and German, and Higher Mathematics.

(*e*) Cambridge University Local Examinations:—

1. Junior Locals. The pass with distinction will be accepted for Lower

Mathematics, provided the candidate has passed in Books I., II., and III. of Euclid, and in Quadratic Equations.

2. Senior Locals. The pass will be accepted as exempting *pro tanto* for Lower Latin and Lower Greek, and for Higher Mathematics; and, if with distinction, for English, Higher Latin, Higher Greek, and Modern Languages.

(*f*) Cambridge University Higher Local Examinations will be accepted *pro tanto*.

(*g*) Oxford and Cambridge Schools Examination Board. Lower Certificate will be accepted for Lower Mathematics, provided the candidate has passed in three books of Euclid, and as far as Quadratic Equations in Algebra.

Higher Certificate. The pass will be accepted for Lower Latin, Lower Greek, and Lower Mathematics, provided the latter includes Elementary and Additional Mathematics; if with distinction, will be accepted for Higher Latin, Higher Greek, French, German, and Higher Mathematics.

(*h*) Victoria University. The Preliminary Examination will be held as exempting from the Preliminary proper, but not from the examination required for admission to a graduating class in any language.

## Ordinary Degree.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognized for graduation, as provided by the regulations[1] contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (*a*) Latin or Greek (not Modern Greek); (*b*) English or a Modern Language (*i.e.* French, German, Italian, or Spanish) or History; (*c*) Logic and Metaphysics, or Moral Philosophy; (*d*) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the departments specified in Section IX. of this ordinance, under the following condition:—That the whole subjects taken shall include either (*a*) both Latin and Greek (not Modern Greek), or (*b*) both Logic and Moral Philosophy, or (*c*) any two of the following three subjects:—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

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[1] These regulations are printed on pp. 173, 174 of the *Calendar* for 1900-1901.

Under this sub-section the Senate, with the approval of the University Court, has sanctioned, as qualifying for graduation, half courses in the following subjects, viz.:—Latin, Greek, Hebrew, Arabic, Mathematics, and Astronomy.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

Under this sub-section the Senate, with the approval of the University Court, has determined that a half course in any subject may not be combined with a half course in another subject, but only with a second half course in the same subject.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Under this sub-section the Senate, with the approval of the University Court, has resolved that in Chemistry, Botany, and Zoology the course of study for a Degree in Arts, and the relative proportion of lectures and laboratory or practical work, shall be as follows:—

1. Chemistry.—A systematic course of one hundred meetings of the class and a practical course of two and a half months.

2. Botany.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

3. Zoology.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

IX. The departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by ordinance of the University Court:—

1. *Language and Literature.*

Latin.
Greek.
English.
French.
German.
Italian.
Sanskrit.
Hebrew.
Arabic or Syriac.
Celtic.
Modern Greek.

2. *Mental Philosophy.*

Logic and Metaphysics.
Moral Philosophy.
Political Economy.
Education (Theory, History, and Art of).
Philosophy of Law.

3. *Science.*

Mathematics.
Natural Philosophy.
Astronomy.
Chemistry.
Zoology.
Botany.
Geology.

4. *History and Law.*

History.
Archæology and Art (History of).
Constitutional Law and History.
Roman Law.
Public Law.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

### Degree with Honours.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

(*a*) Classics (*i.e.* Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).
(*b*) Mental Philosophy.
(*c*) Mathematics and Natural Philosophy.
(*d*) Semitic Languages.
(*e*) Indian Languages.
(*f*) English (Language, Literature, and British History).[1]
(*g*) Modern Languages and Literature (*i.e.*, French, German, Italian, or Spanish).
(*h*) History.
(*i*) Economic Science [*i.e.*, Political Economy with either (*a*) Moral Philosophy or (*b*) History as supplementary Honours Subjects].[2]

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.[3]

(4) A Candidate who has obtained Honours in any one Group, may, before graduating,[4] present himself again for examination in a second Honours Group. In such a case, he shall not be required to attend more

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[1] The Senatus Academicus, in determining the courses to be attended within the Honours Group entitled "English (Language, Literature, and British History)," and the character of the examination specified in Section XI., sub-section 1 (*f*), shall regard English Literature as constituting the chief subject of the Group, the linguistic and historical subjects being regarded as subsidiary thereto.

[2] This Group of Honours was instituted by Ordinance No. 160, issued by the Universities Commission on 10th May, 1897, and approved by Her Majesty in Council on 19th May, 1898.

[3] The Senate, on 6th April, 1899, made the following regulation:—No Honours Class can be taken for graduation purposes either before or in the same session as an Ordinary Class in the same subject.

[4] Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. to XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken: Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy. *Candidates for Honours in Mental Philosophy who have included Latin, but not Greek, as one of the subjects in which the standard of examination is the same as that required for the ordinary degree of Master of Arts, shall be deemed to have satisfied the provisions of this sub-section, if, before they offer themselves for the Honours examination in Mental Philosophy, they shall have passed a special examination in translating into English, passages from the works of Greek philosophical authors,*[1] *including passages from the works of such authors not previously prescribed.*[2]

(3) Candidates for Honours in English, or Modern Languages and Literature, or History, *or Economic Science*[3] (Groups *f*, *g*, *h*, *i*, of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

(4) Every candidate shall have obtained a certificate for his attendance on the class of Latin or Greek, under sub-section (1) or (2) of this section before he offers himself for examination in his Honours group of subjects.[4]

(5) Candidates for Honours in Economic Science (Group (*i*) of Section XI. hereof), who take Moral Philosophy as their supplementary Honours subject, may take a half course in the History of Civil Law and a half course in the Philosophy of Law, which, together, shall be deemed to constitute one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.[5]

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[1] The following works have been prescribed, viz. (*a*), Plato's *Phaedo* or any book of the *Republic*; (*b*) Aristotle's *Ethics*, Book I.

[2] The words in *italics* in this sub-section are taken from Ordinance No. 148.

[3] The words in *italics* are taken from Ordinance No. 160.

[4] This sub-section is taken from Ordinance No. 148.

[5] This sub-section is taken from Ordinance No. 160. See second note on preceding page

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated,[1] may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

## BOARDS OF STUDIES.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of Study shall submit to the proper

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[1] Ordinance No 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

In addition to the syllabus of subjects specified in Section XVIII., the Professors, and in the case where a subject is taught by a Lecturer only, the Lecturer or Lecturers, shall submit to the proper Board of Studies a syllabus of the subjects and books to be prescribed for the examinations for the Ordinary Degree of Master of Arts in the next academical year, and for the Honours examinations in the academical year next but one.

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the academical year next but one following, the classes which shall be deemed to be Honours Classes, and the subjects and courses of reading for Honours in its department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half courses which may be sanctioned under the provisions of this ordinance, and the Lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex-officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

### General.

XXI. In the case of a foreign student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient. In the case of a student whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognized as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum.*

XXVIII. A student who, previous to 1st October, 1892, commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations[1] in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as Junior or Middle Classes, shall in no case qualify for graduation.

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

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[1] These regulations may be found at pp. 173, 174 of the *University Calendar* for 1900-1901, and in the *Calendars* for preceding sessions.

## TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions set in April, 1902, in the several Departments and Subjects will be found towards the end of the *Calendar*.

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| LATIN | **October, 1902.**<br>VIRGIL, *Æneid*, Book XI.<br>HORACE, *Odes*, Books I, II, III, IV.<br>HORACE, *Satires*, Book I, or *Epistles*, II. with *Ars Poetica*.<br>TACITUS, *Annals*, V, VI.<br>CICERO, either (*a*) *Phil.* I, II, or (*b*) *Letters*, not less than fifty consecutive pages of text.<br>ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY, from B.C. 133 to B.C. 44 (Howe & Leigh's *History of Rome*.)<br>Unseen translation.<br>*Note.*—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.<br>**April and October, 1903.**<br>VIRGIL, *Æneid*, Book VII.<br>HORACE, *Odes*, Books I, II, III, IV.<br>HORACE, *Satires*, Book II.<br>TACITUS, *Annals*, XI.<br>CICERO, either (*a*) *Epistles*, not less than sixty consecutive pages of Tyrrell's Selection, or (*b*) *Pro Muraena* and *Pro Archia Poeta*.<br>ROMAN ANTIQUITIES (Ramsay, Caps. II to VIII inclusive, and Cap. XI). ROMAN HISTORY from B.C. 133 to B.C. 44 (Howe and Leigh's *History of Rome*).<br>Unseen translation.<br>*Note.*—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions. | **October, 1901, and afterwards till further notice.**<br>VERSE. { VIRGIL, *Æneid*, VII—XII.<br>HORACE, the *Satires* and *Epistles* with *Ars Poetica*.<br>And any two (or more) of the following combinations:<br>(*a*) LUCRETIUS, Books I, II (or III and IV to line 1019), with a play of PLAUTUS.<br>(*b*) JUVENAL (the whole excepting *Sat.* II, VI, and IX).<br>(*c*) PERSIUS, with Sellar's Selections from Martial, Books I-IV, or Books V-VIII.<br>(*d*) CATULLUS (Clarendon Press Selection) and PROPERTIUS (Ramsay's Selection).<br>PROSE. { CICERO, the *Philippic Orations*, I-VI, or any oration of Cicero, or any consecutive portion of Cicero's *Epistles* (Muirhead's or Prichard and Bernard's Selections) of at least equal length.<br>LIVY, I-III, or XXI-XXIII.<br>TACITUS, *Annals*, II-VI [in October, 1902].<br>TACITUS, *Annals*, XI-XIV [in April, 1903, and afterwards].<br>With Latin Composition, History, and Antiquities, etc. Passages also from Books not prescribed will be set.<br>Candidates may profess any extra books they please. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| GREEK | **October, 1902.**<br>HOMER, *Odyssey*, IX and X.<br>SOPHOCLES, *Ajax*.<br>LYSIAS, *Select Orations* (Shuckburgh's Edition), or<br>HERODOTUS, III.<br>PLATO, *Apologia Socratis* and *Crito*.<br>Holm's *History of Greece*, Vol. II, III, Ch. 1—12.<br>Unseen Translations and Prose Compositions, Greek Grammar, Literature, and Antiquities.<br>**April and October, 1903.**<br>HOMER, *Iliad*, XXI and XXII.<br>AESCHYLUS, *Eumenides*.<br>PLATO, *Charmides*, *Laches*, *Theages*.<br>XENOPHON, *Œconomicus*.<br>Holm's *History of Greece*, Vol. II, and Vol. III.<br>Unseen Translations and Prose Compositions, Greek Grammar, Literature, and Antiquities. | **April, 1899, and afterwards till further notice.**<br>HOMER, *Iliad*, I, VI, IX, XVI, XXII; and *Odyssey*, VI, X, XI, XIV, XXIII.<br>DRAMA. AESCHYLUS, *Agamemnon*, and SOPHOCLES, *Antigone*.<br>HISTORY. Either THUCYDIDES, I, or HERODOTUS, VII.<br>PHILOSOPHY. PLATO, either *Phaedo* or *Republic*, II, IV, and V, to page 466, omitting pages 458—461 (=Chap. I—XIII, omitting VIII and IX). ARISTOTLE, either *Poetics*, omitting Chap. XX and XXI, or *Politics*, I—II, 6 inclusive.<br>Two ADDITIONAL BOOKS to be chosen by the Candidate subject to the special approval of the Professor, which must be applied for at least Three Months before the Examination. By a Book is meant an amount of continuous Prose equal to a Book of Herodotus or Thucydides, or an amount of continuous Poetry equal to *two* plays.<br>Besides passages for translation from the above books, Questions will be set upon the Text, Interpretation, and Subject Matter. A pure and accurate English style in translation is considered of the highest importance.<br>Composition and Unseen Translation.<br>A general knowledge of History, Antiquities, Literature, and Grammar is also required. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| ENGLISH LITERATURE | **October, 1902.**<br>A. For students of session 1900-1901:—(1) English Composition; (2) English Philology; (3) English Imaginative Literature, 1796–1824, especially the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, and the following Novels, *The Heart of Midlothian*, *The Bride of Lammermoor*, *Ivanhoe*; (4) (*a*) Shakespeare's *Tempest*; (*b*) Swift's *Gulliver's Travels*.<br>B. For students of session 1901-1902:—(1) English Composition; (2) English Philology; (3) Marlowe's *Tamburlaine* and *Doctor Faustus;* Shakespeare's *Love's Labour's Lost*, *Henry IV.*, Parts I and II, *King Lear*, *Antony and Cleopatra*, *Winter's Tale;* Jonson's *Alchemist* and *Discoveries;* Spenser's *Four Hymns;* Sidney's *Apologie for Poesie;* Raleigh's *Last Fight of the Revenge;* Bacon's *Essays*.<br>Students of earlier sessions may take either paper; students of sessions prior to 1893-94 may omit Philology; *but no third paper will be set.*<br><br>**April and October, 1903.**<br>For students of 1902-3:—(1) English Composition; (2) English Philology; (3) Milton, *L'Allegro*, *Il Penseroso*, *Lycidas*, *Paradise Lost*, Books I-IV, *Tractate of Education;* Dryden, *MacFlecknoe*, *Absalom and Achitophel*, Part I, *Discourse on Satire;* Sir Thomas Browne, *Religio Medici;* Locke, *The Conduct of the Understanding* (ed. Fowler); *Seventeenth Century Lyrics* (ed. Saintsbury, pub. by Percival & Co.); Shakespeare, *Twelfth Night*, *Othello;* Browning, *Selections*.<br>Students are advised to present themselves at the April or the October examination immediately following their Course, as the subjects studied in the class will be changed from year to year. | The subjects of examination in English[1] (Language, Literature, and British History) will be as follows:—<br>I. LANGUAGE.—Anglo-Saxon and Middle-English, with Sweet's *Anglo-Saxon Reader* and Morris and Skeat's *Specimens of Early English*, Parts 1 and 2.<br>II. LITERATURE.—(1) General History of English Literature. (2) Chaucer. (3) Shakespeare. (4) A Dissertation on some subject approved by the Professor; the dissertation to be sent in to the Clerk of Senate not less than a month before the first day of the examination at which the candidate presents himself.<br>III. HISTORY.—The History of Great Britain and Ireland, either (*a*) from 1714 to 1815, with special reference to the following works of Burke:—*Thoughts on the Present Discontents;* *Speeches on American Taxation;* *Reflections on the French Revolution:* or (*b*) from 1603 to 1714, with special reference to the following works:—Milton's *Reason of Church Government* and *Tenure of Kings and Magistrates;* Butler's *Hudibras;* Dryden's *Satires;* Swift's *Conduct of the Allies*.<br>*N.B.*—Students should send to the Professors concerned, at least two months before the examination, notice of the periods selected. |

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[1] See p. 176, and first note at foot of page.

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| FRENCH | **October 1902.**<br>I. Translations into and from French.<br>II. Questions in Grammar: The French Syntax. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.*<br>III. Essay in French on the subjects of the Class Lectures. Books prescribed: Victor Hugo, *Préface de Cromwell*, *Hernani*, *Ruy Blas*; Racine, *Bérénice*; Molière, *L'Avare*; Michelet, *Pages Choisies* (Edition A. Colin, Paris).<br>IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures. (3) History of France in the 19th century.<br>**April and October, 1903.**<br>I. Translations into and from French.<br>II. Questions in Grammar: The French Syntax; History of the French Language. Text-Book: A. Darmesteter, *Grammaire historique de la Langue française.*<br>III. Essay in French on the subjects of the Class Lectures.<br>IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures. (3) History: The French Institutions. | **October, 1902.**<br>I. Translations from Old French and from English into Modern French. Translation into English.<br>II. Essay in English on Historical French Grammar.<br>III. and IV. Essays in French on French Literature in the 16th, 17th, and 19th centuries.<br>V. Oral Examination.—Among other questions (see syllabus for work of class) one will be put on the History of French Civilisation in the 19th century.<br>**April and October, 1903 and 1904.**<br>I. Translations from Old French and from English into Modern French. Translations into English.<br>II. Essay in English on Historical French Grammar. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.*<br>III. and IV. Essays in French on French Literature in the 17th, 18th, and 19th centuries. Works prescribed: *Molière's* Works, *Regnard's* Works, *Le Sage's* Comedies, *Destouches*, *Marivaux.* French poetry in the 19th century: *Victor Hugo*, *Lamartine*, *Alfred de Vigny*, *Alfred de Musset*, *Leconte de Lisle.*<br>V. Oral Examination—(1) Reading, Translation, and explanation of a text studied in the class. (2) Interrogations on French Literature (see III. and IV.). (3) History of French Civilisation in the 19th century. |

| | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| **GERMAN** | **October, 1902.**<br>(1) Translation from and into German. (2) The Grammar Lectures. (3) The works read in the class; in addition, Die Leiden des jungen Werther. (4) General Outlines of German Literature to year 1832, with special period, 1748-1805; Essay in German. (5) Oral examination.<br>**April and October, 1903.**<br>(1) Translation from and into German; (2) The Grammar Lectures; (3) The works read in the Class; (4) General Outlines of German Literature to 1832: special period, the Romantic School; (5) Oral Examination. | **October, 1902.**<br>I. Paper. The modern German written language. German Grammar. Translation from English into German, from German into English. An Essay in German.<br>II. Paper. General History of German Literature from the earliest times to the present (in German.) Historical German Grammar.<br>III. Paper. Die deutsche Heldensage.<br>IV. Paper. One of the following subjects: (*a*) the Gothic Language; (*b*) the Romantic School; (*c*) Goethe; (*d*) Lessing; (*e*) The Faust Legend; (*f*) German literature of the Sixteenth Century.<br>Books prescribed:—Brandt, *A Grammar of the German Language*, Boston, 1893; Vogt und Koch, *Geschichte der deutschen Literatur*, Leipzig, 1897; W. Grimm, *Deutsche Heldensage;* Jiriczek, *Deutsche Heldensage;* R. Koegel, *Geschichte der deutschen Literatur bis zum Ausgange des Mittelalters;* Braune, *Gotische Grammatik;* Haym, *Die romantische Schule;* R. M. Meyer, *Goethe;* Erich Schmidt, *Lessing;* Kuno Fischer, *Goethe's Faust.*<br>**April and October, 1903.**<br>I. Translation from and into German.<br>II. Sixteenth Century German; Historical German Grammar.<br>III. Middle High German, or Gothic, or Old High German.<br>IV. General History of German Literature to year 1832, with special period, 1748-1832; Essay in German.<br>V. Oral examination.<br>**April and October, 1904.**<br>I. Translation from English and Middle High German into Modern German; Historical German Grammar.<br>II. Middle High German (*a*) either *Der arme Heinrich*, or *Iwein;* (*b*) *Walther von der Vogelweide*, or *Das Nibelungenlied;* Elementary Gothic, or Old High German.<br>III. General History of German Literature to the year 1832, with special knowledge of the Classical periods.<br>IV. Oral examination.<br>Books prescribed: Wright, *Middle High German Primer;* Golther, *Der Nibelunge Nôt;* Paul, *Mittelhochdeutsche Grammatik;* Pfeiffer, *Iwein;* Güntter, *Walther von der Vogelweide;* Jantzen, *Gotische Sprachdenkmäler;* Kluge, *Geschichte der deutschen National-Litteratur;* Scherer, *History of German Literature.* |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| HEBREW | **October, 1902.**<br>The Books of Judges and Ruth.<br>Psalms LXXIII—LXXXIX.<br>The Book of Lamentations.<br>The History of Israel, from the schism of the kingdom to the downfall of Jerusalem.<br>Hebrew Archæology; History of the Masoretic Text (Weir's *Short History*).<br>Introduction to the books prescribed.<br>Unseen translation; unpointed text to be pointed and translated; translation from English into Hebrew; and Grammar, Syntax, and Accents.<br>**April and October, 1903.**<br>The Books of Judges and Ruth.<br>Psalms XC.—CVI.<br>The Book of Hosea.<br>The History of Israel to the downfall of Samaria.<br>Hebrew Archæology: History of the Masoretic Text (Weir's *Short History*).<br>Introduction to the Books prescribed.<br>Unseen translation; unpointed text to be pointed and translated; translation from English into Hebrew; and Grammar, Syntax, and Accents. | |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| ARABIC | Qoran. The Suras contained in Nallino's *Chrestomathia Korani Arabica.*<br>The Prose Extracts contained in Brünnow's *Chrestomathie aus Arabischen Prosaschriftstellern.*<br>One at least of the Seven Muállaqât.<br>History and Literature:—Sale's Preliminary Dissertation on the Koran. History of the Arabs and their literature to the fall of Baghdad.<br>Unseen translation; unpointed text to be pointed; translation from English into Arabic; Grammar, Syntax, and Prosody. | |
| LOGIC | The Class Lectures. Berkeley's *Principles of Human Knowledge* (in Fraser's *Selections from Berkeley*). | **October, 1900, and until further notice.**<br>(*a*) Logic and Psychology: the subjects of the Class Lectures, Ordinary and Advanced. Candidates will be expected to have read some of the larger modern treatises on Logic, such as Mill, Venn, or Sigwart.<br>(*b*) Metaphysics: (1) Kant's *Kritik of Pure Reason.* (2) History of Greek Philosophy, either (*a*) up to Aristotle, or (*b*) Aristotle and the Post-Aristotelian systems (exclusive of Neo-Platonism).<br>(*c*) Candidates are, in addition, expected to offer for examination some book, author, period, or subject, to be approved by the Professor. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| MORAL PHILOSOPHY | The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the *Republic* of Plato (translated by Davies and Vaughan). | Candidates for Honours will be examined in:—(1) The Professor's Lectures; (2) Aristotle's *Ethics* (omitting Books VII and VIII), Aristotle's *Politics*, Books I—IV, and, in connection therewith, the History of Ethical Thought in Greece previous to Aristotle; (3) Spinoza's *Ethics*; (4) The Ethical Theory of Kant, together with Caird's *Philosophy of Kant*, Books II, III, IV, and Green's Prolegomena to Ethics; (5) the general history of Modern Hedonism.<br>Candidates are, in addition, expected to offer for examination some book, subject, author, or period; or to submit a thesis on a subject in Philosophy, *either* in Logic *or* in Moral Philosophy, such thesis to be lodged by the candidate when entering his name for examination. |
| POLITICAL ECONOMY | The Lectures and Text-books of the session in which the student has attended the class. | In 1903 and until further notice the subjects of examination for Honours in ECONOMIC SCIENCE will be as follows:—<br>I. **Political Economy.** The subjects of the Class Lectures, Ordinary and Advanced. Prescribed books: Cannan, *Production and Distribution*; Bosanquet, *Philosophical Theory of the State*; Marshall, *Principles of Economics*; Bastable, *Public Finance*; Seligman, *Essays in Taxation*; Bagehot, *Lombard Street*; Keynes, *Scope and Method of Political Economy*; Cunningham and Macarthur, *Outlines of England's Industrial History*; Ingram, *History of Political Economy*; Nicholson, *Money and Monetary Problems*; Goschen, *Foreign Exchanges*; Sidgwick, *Principles*, Book III; *Memoranda on Classification and Incidence of Imperial and Local Taxes* (Blue-book), pp. 66—175. Candidates will be required to submit a thesis on some subject to be approved by the Professor.<br>II. *Either* (*a*) **Moral Philosophy**—see the regulations for Honours in Moral Philosophy *ut supra*.<br>*Or* (*b*) **History.** British History to 1880, with especial reference to the economic condition of England. Prescribed books: *Walter of Henley* (ed. E. Lamond); *The Libell of English Polycye* (Political Songs, vol. ii. in Rolls Series); *The Discourse of the Commonwealth of this Realm of England* (ed. E. Lamond); Mun's *England's Treasure by Foreign Trade* (ed. Ashley); Hely Hutchinson's *Commercial Restraints of Ireland* (ed. Carroll); Petty's *Treatise of Taxes and Contributions* (ed. Hull). |
| HISTORY OF CIVIL LAW | The Class Lectures. (See page 120.) | |
| PHILOSOPHY OF LAW | Holland's *Jurisprudence* (any edition after the fourth). Maine's *Ancient Law*. Miller's *Philosophy of Law*. | |

| | | FOR HONOURS. |
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| EDUCATION | **October, 1902, and April 1903.**<br>Theory, Art, and History of Education, as treated in the Lectures; all the books used for Class work (see p. 79) must be professed, and, in addition, Rousseau's *Émile* (Payne's Translation in International Education Series). | |
| MATHEMATICS | Euclid, First Six Books, and Book XI, 1—21.<br>Analytical Geometry of straight line and circle.<br>Algebra, including Quadratic Equations, Progressions, and Binomial, Exponential, and Logarithmic Theorems.<br>Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables. | *Second and Third Class.*—In addition, Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Intermediate Honours Mathematical Class.<br>*First Class.*—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations. |
| NATURAL PHILOSOPHY | The subjects explained in the class. Dynamics, Acoustics, Heat, Light, Magnetism, and Electricity. | Higher Dynamics (Statics and Kinetics of a particle and of a rigid body). The special subjects treated in the Higher Natural Philosophy Class during the session of attendance, with one of the following:—Hydro-dynamics, Conduction of Heat, Magnetism and Electricity, Light, Sound, Elasticity. |
| ASTRONOMY | The Professor's Lectures during the session or sessions in which the student has attended the class, and Popular Astronomy. | |
| CHEMISTRY | General principles—Inorganic and Elements of Organic Chemistry.<br>Text-books: Bloxam's *Chemistry*; Newth's *Inorganic Chemistry*; Armstrong's *Organic Chemistry*; Remsen's *Organic Chemistry*; Clowes' *Practical Chemistry*; Gattermann's *Practical Methods of Organic Chemistry*; R. Lloyd Whiteley's *Organic Chemistry*. | |
| ZOOLOGY | Text-books by Claus; Parker & Haswell. | |
| BOTANY[1] | The general principles of the Science of Botany, including External Morphology, Anatomy and Physiology; also the chief characters of the Natural Orders of Phanerogams represented in the British Flora, and of the leading types of Pteridophyta, Bryophyta, and Thallophyta. | |

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[1] The examination in this and the two preceding subjects will be oral and practical, as well as by written papers.

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| **HISTORY** | The Outlines of the History of England and Scotland to 1880. | In October, 1902, and until further notice, Candidates will be examined in the following subjects:—(1) British History to 1880. This subject includes the History of England and Scotland, the History of Ireland from the reign of Henry II., and the History of the Colonial Empire of Great Britain. (2) The General History of the English Constitution. (3) The Constitutional Law and Custom of Great Britain, France, and the United States of America. Prescribed books: Dicey, *Law of the Constitution;* Anson, *Law and Custom of the Constitution;* Bodley, *France;* Bryce, *American Commonwealth.* (4) The growth of the English Constitution to the close of the reign of Edward I. Prescribed book: Stubbs, *Select Charters.* (5) One of the following periods of Foreign History at the choice of the Candidate (*a*) 800-1272, (*b*) 1453-1648, (*c*) 1740-1878.<br>Candidates may, *in addition*, submit through the Professor of History a thesis on some subject of British or Foreign History to be approved by the Board of Examiners for Honours in History. This should, as far as possible, be based on the leading original authorities on the subject of which it treats. Such thesis, when offered, will be considered as forming an integral part of the examination. |
| **CONSTITUTIONAL LAW AND HISTORY** | The Class Lectures and Taswell-Langmead's *English Constitutional History;* Dicey's *Law of the Constitution;* Anson's *Law and Custom of the Constitution*, vol. i. | |
| **ROMAN LAW** | Institutes of Justinian (ed. Moyle or Sandars), and the Class Lectures.<br>*Note.*—Candidates who aim at a degree in Law are recommended, in addition to the above, to profess *Dig.*, Lib. XVIII, Tit. I. The title is translated and annotated by Mackintosh—Roman Law of Sale. | |

## DEGREE OF M.A. WITH HONOURS.

Students who propose to graduate with Honours may with advantage consult the following synopsis of the conditions attaching to the several Groups of Honours:—

I. The Degree of M.A. with Honours may be taken at present in any of the following *Groups*, there being two subjects in each Group:

(*a*) Classics, viz.
  (1) Latin.
  (2) Greek.

(*b*) Mental Philosophy, viz.
  (1) Logic.
  (2) Moral Philosophy.

(*c*) Mathematics and Natural Philosophy, viz.
  (1) Mathematics.
  (2) Natural Philosophy.

(*d*) Semitic Languages.

(*e*) [Indian Languages.]

(*f*) English, viz.
  (1) English Language and Literature.
  (2) British History.

(*g*) Modern Languages, viz.
  (1) French.
  (2) German.

(*h*) History, viz.
  (1) History.
  (2) Constitutional Law and History.

(*i*) Economic Science, viz.
  (1) Political Economy.
  (2) Moral Philosophy, *or* History.

II. *Conditions of Examination*:

(1) The whole examinations necessary for graduation with Honours must be taken within five years from the date of the Candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown.

(2) The Candidate is examined in at least five subjects. (*a*) *Two* of these are his two *Honours* subjects (*e.g.* Logic and Moral Philosophy, if his group is Mental Philosophy). The examinations in the Honours subjects must be taken at one time, and not until the Candidate has obtained his certificate of attendance on the ordinary class of Latin or Greek. (*b*) In the other *three* subjects the examination is that for the *Ordinary* degree. The Candidate may offer himself for examination in them, together or apart, at any time or times during his curriculum, after he has attended the appropriate classes.

(3) Under the restrictions noted below [see (4) and III. (2)], the Candidate may choose his three Ordinary degree subjects from the following list:

Latin.
Greek.
English.
French.
German.
Hebrew.
Arabic.
Logic and Metaphysics.
Moral Philosophy.
Political Economy.
Education (Theory, History, and Art of).
Mathematics.
Natural Philosophy.
Astronomy.
Chemistry.
Zoology.
Botany.
History.
Constitutional Law and History.
Civil, *i.e.* Roman Law.

(4) Candidates in the various Honours Groups are restricted in their choice among the Ordinary Degree subjects to the following extent. They must choose

In Group (*a*) *Classics*: one subject from each of the following sets of Ordinary classes:

(i) Logic, Moral Philosophy, Political Economy, Education.
(ii) Mathematics, Natural Philosophy, Chemistry, Zoology, Botany, Astronomy.
(iii) Any subject for the Degree except the two already chosen.

In Group (*b*) *Mental Philosophy*: one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek. If the Greek class has not been attended and the examination for Ordinary Degree on Greek passed, the student who chooses Latin as his subject in this set is required to pass a special examination in Greek, and this special examination he must pass before he offers himself for the Honours examination. [See the paragraph to which the second footnote on p. 177 refers.]
(ii) Mathematics, Natural Philosophy, Chemistry, Zoology, Botany, Astronomy.
(iii) Any subject for the Degree except the two already chosen.

In Group (*c*) *Mathematics and Natural Philosophy*: one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.
(ii) Logic, Moral Philosophy, Political Economy, Education.
(iii) Any subject for the Degree except the two already chosen.

In Group (*d*) *Semitic Languages*: one subject from each of the following sets of Ordinary classes;

(i) Latin, Greek.
(ii) Logic, Moral Philosophy, Political Economy, Education.
(iii) Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany.

In Groups (*f*) *English*, (*g*) *Modern Languages*, (*h*) *History*, one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.
(ii) Logic, Moral Philosophy.
(iii) Mathematics, Natural Philosophy.

In Group (*i*) *Economic Science*: if History be the second subject chosen, one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.
(ii) Logic, Moral Philosophy.
(iii) Mathematics, Natural Philosophy.

If Moral Philosophy be the second subject chosen, one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.
(ii) Mathematics, Natural Philosophy.
(iii) A half course in the History of Civil Law combined with a half course in Philosophy of Law, or any subject for the Degree except those already chosen. [See III. (2) below.]

III. *Attendance.*

(1) The Candidate must attend two classes, one of which shall be an Honours class, in each of his two *Honours* subjects, these two subjects being taught by separate Professors or Lecturers; and he cannot take an Honours class in a subject before, or in the same session as, an Ordinary class in that subject. All Honours classes meet on not less than fifty days in a session.

(2) In order to qualify for his Ordinary degree examinations in the other three subjects, the candidate must attend classes in them. Most of the classes for the Ordinary degree meet on not less than one hundred days in a session. In place of such a full course, two half courses, each involving not less than fifty meetings, may be taken. The subjects in which half courses may be taken are: Latin, Greek, Hebrew, Arabic, Mathematics, Astronomy. A half course in any of these subjects can be combined only with a second half course in the same subject. There is also a half course in Philosophy of Law and in the History of Civil Law, and these two can be combined to form one subject, but only by those who select Moral Philosophy in the Group of Economic Science.

IV. *Additional Regulations* with regard to Degree of M.A. with Honours.

(1) A candidate who has obtained Honours in any one Group may, whether he has graduated or not, present himself again for examination in a second Honours Group. He is required to attend two additional classes, which shall be Honours Classes, in this second Group.

(2) A Candidate who has passed the seven examinations necessary for the ordinary Degree of Master of Arts, whether he has graduated or not, may, without attending further classes, present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination: but he must satisfy the requirements as to subjects set out above under II. (4).

(3) No one shall be allowed to present himself a second time as a candidate for the Degree of Master of Arts with Honours, who upon examination, has failed to obtain Honours.

## TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., TO BE HELD DURING SESSION 1902-3.

| FEE. | Names to be given in and Fees paid to Assistant-Clerk (Matriculation[1] Office). Date. | Subjects of Examination. | Dates of Written Examinations and Hours at which the different Papers will be set. | |
|---|---|---|---|---|
| | | | September—October, 1902. | March—April, 1903. |
| £1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID. | 11th September or 12th March | Astronomy, | Saturday, 27th Sept., 9—12 noon. | Saturday, 28th March, 9—12 noon. |
| | | Zoology, | Monday, 29th Sept., 10—11.30 a.m. | Monday, 30th March, 10—11.30 a.m. |
| | | Botany, | Do., do., 12.30—2. p.m. | Do., do., 12.30—2. p.m. |
| | | Chemistry, | Do., do., 3—4.30 p.m. | Do., do., 3—4.30 p.m. |
| | 17th September or 10th March | Education (1st Paper), | Friday, 26th Sept., 9—12 noon. | Friday, 27th March, 9—12 noon. |
| | | Mathematics (1st Paper), | Do., do., 3—6 p.m. | Do., do., 3—6 p.m. |
| | | Education (2nd Paper), | Saturday, 27th Sept., 9—12 noon. | Saturday, 28th March, 9—12 noon. |
| | | Mathematics (2nd Paper), | Do., do., 3—6 p.m. | Do., do., 3—6 p.m. |
| | | Constitutional Law & History, | Monday, 29th Sept., 9—12 noon. | Monday, 30th March, 9—12 noon. |
| | | Roman Law, | Do., do., 2—5 p.m. | Do., do., 2—5 p.m. |
| | | Moral Philosophy, | Tuesday, 30th Sept., 9—12 noon. | Tuesday, 31st March, 9—12 noon. |
| | | Moral Philosophy (Hon.), | Do., do., 2—5 p.m. | Do., do., 2—5 p.m. |
| | | English Literature (Hon.), | Do., do., 2—5 p.m. | Do., do., 2—5 p.m. |
| | | Logic, | Wednesday, 1st Oct., 9—12 noon. | Wednesday, 1st April, 9—12 noon. |
| | | Logic (Hon.), | Do., do., 2—5 p.m. | Do., do., 2—5 p.m. |
| | | English Literature (Hon.), | Do., do., 2—5 p.m. | Do., do., 2—5 p.m. |
| | | Political Economy, | Do., do., 6—9 p.m. | Do., do., 6—9 p.m. |
| | | History, | Thur., 2nd Oct., 9—12 noon & 2—5 p.m. | Thur., 2nd April, 9—12 noon & 2—5 p.m. |
| | | Natural Philosophy, | Fri., 3rd Oct., 9—12 noon & 2—5 p.m. | Friday, 3rd April, 9—12 noon & 2—5 p.m. |
| | | English Literature, | Saturday, 4th Oct., 9—12 noon. | Saturday, 4th April, 9—12 noon. |
| | | Classics (Hon.), | Do., do., 2—6 p.m. | Do., do., 2—6 p.m. |
| | | Mental Philosophy (Hon.), | Do., do., 2—6 p.m. | Do., do., 2—6 p.m. |
| | | English Literature (Hon.), | Do., do., 2—6 p.m. | Do., do., 2—6 p.m. |
| | | Latin, | Monday, 6th Oct., 10—12, 1—3, and 4—6 p.m. | Monday, 6th April, 10—12, 1—3, and 4—6 p.m. |
| | | Greek, | Tuesday, 7th Oct., 10—12, 1—3, and 4—6 p.m. | Tuesday, 7th April, 10—12, 1—3, and 4—6 p.m. |
| | | Latin and Greek, | Thursday, 9th Oct., and following days at 11 a.m. (Orals.) | Thursday, 9th April, and following days at 11 a.m. (Orals.) |
| | | French, | Wed., 8th Oct., 9—12 noon & 2—5 p.m. | Wed., 8th April, 9—12 noon & 2—5 p.m. |
| | | German, | Thur., 9th Oct., 9—12 noon & 2—5 p.m. | Thur., 9th April, 9—12 noon & 2—5 p.m. |
| | | Hebrew, | Fri., 10th Oct., 9—12 noon & 2—5 p.m. | Fri., 10th April, 9—12 noon & 2—5 p.m. |

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[1] When names are not given in, and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid

## 2.—GRADUATION IN SCIENCE.

The Scottish University Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science.

### Degrees in Pure Science.

The following are the provisions of Ordinances No. 12[1], No. 42, No. 44, and No. 155 as they apply to this University :—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that ordinance (see pp. 167—174, 179) are applicable in all respects to candidates for the Degree of Bachelor of Science, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard;[2] (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in

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[1] This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 485-488, and the modifications made by Ordinance No. 42 were indicated, by means of square brackets, in the *University Calendar* for 1894-95.

[2] A student who, having passed the Arts Preliminary Examination in accordance with the provisions of Ordinance No. 11, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12. See Ordinance No. 44, Section V. Candidates for the Degree of B.Sc. in Pure Science may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions, candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard. See Ordinance No. 155, Section I.

Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon. The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination[1] in the three following subjects—viz., (1) Mathematics or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the Ordinary Degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

[1] This examination includes practical work in the subjects admitting of, or requiring it.

IX. (1) There is a Final Science Examination[1] on a higher standard in any three or more of the following subjects :—

1. Mathematics.
2. Natural Philosophy.
3. Astronomy.
4. Chemistry.
5. Human Anatomy, including Anthropology.
6. Physiology.
7. Geology, including Mineralogy.[2]
8. Zoology, including Comparative Anatomy.
9. Botany, including Vegetable Physiology.

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the Degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

The Senate, with the approval of the University Court, has framed the following regulation for the Final Science Examination, viz.: A candidate shall be allowed the option of presenting himself in any one subject for the Final Science Examination, or in two, or in three or more at one time, provided always that if the candidate select Mathematics and Natural Philosophy, these subjects shall be taken together in one examination, in accordance with Ordinance No. 11, Section XIII. (1) and Ordinance No. 12, Section IX. (2).

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

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[1] This examination includes practical work in the subjects admitting of, or requiring it.

[2] The course in Geology, including Mineralogy, consists of one hundred meetings namely, fifty systematic and fifty practical.

### DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

### DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the Degree of Doctor of Science shall present a thesis or a published memoir or work[1] to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined. [This examination is to be conducted by Examiners appointed under Ordinance No. 62, Section X. See *Cal.* page 212.]

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

### GENERAL.

XVII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,[2] or with the provisions of this ordinance, may become a candidate for the Degree of Bachelor of Science.

XVIII. The Degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This ordinance came into force on 1st October, 1892.

For Dates of Examinations, see Table on page 207.

### Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the

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[1] The Thesis must be lodged on or before 10th January.

[2] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

University of Glasgow, viz., Bachelor of Science in Engineering[1] and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for degrees in Arts); and the conditions with respect thereto imposed by the said ordinance (see pp. 167—174, 179) are applicable in all respects to this ordinance except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. Candidates must in the course of not less than three academical years attend at least the nine courses of instruction prescribed under Section IX. below.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering: Provided that the fees for attendance at an approved institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and West of Scotland Technical College, and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

(1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one academical year; and of these courses one at least shall be in Engineering.

(2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend Lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

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[1] By order of the Council of the Institution of Civil Engineers the possession of the Degree of B.Sc. in Engineering exempts candidates applying for election into the Institution as Associate Members from passing the examination prescribed by the Council.

VII. (1) The Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VIII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory, or in the Chemical Laboratory, or of Practical Chemistry.

and either:—

5, 6. Two courses in Engineering, including Laboratory Practice.
7, 8. Two courses of practical work in Drawing.
9. A course in one of the following:—
    (*a*) Astronomy and Geodesy.
    (*b*) Geology and Mineralogy.
    (*c*) Naval Architecture.
    (*d*) Engineering Laboratory, Mechanical or Electrical (Special Course).
    (*e*) Electricity—Pure and Applied.

or:—

5, 6. Two courses in Naval Architecture with Marine Engineering.
7, 8. Two courses of practical work in Ship and Engineering Drawing.
9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date on which this ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

X. (1) There shall be a First Science Examination[1] in subjects 1, 2, 3, and 4 of the section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the section immediately preceding[1]; but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the Ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination[2] in subjects 5, 6, 7, 8, and 9 of Section IX. hereof; and, if required, in the higher branches of Mathematics as provided in Section X., Sub-section 2 hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof, shall be deemed one subject.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It is competent to the University Court of the University of Glasgow to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any special branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12.

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[1] The Senate has authorised the Examiners in Mathematics and Natural Philosophy to return as having passed in the elementary part of either or both of these subjects any candidate who has attempted the examination in the higher branches of either or both and has failed to pass, provided that in the opinion of the Examiners the candidate has attained a standard equivalent to that required for the ordinary Degree of M.A.

[2] This examination includes practical work in the subjects admitting of, or requiring it: Provided that, in the case of Engineering Students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

### DOCTORATE OF SCIENCE IN ENGINEERING.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work[1] to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

### GENERAL.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the fees required.

XVIII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,[2] or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 26th June, 1893.

For Dates of Examinations, see Table on page 207.

### DEGREES IN SCIENCE IN AGRICULTURE.

The regulations for the Degree of Bachelor of Science in Agriculture are contained in Ordinance **No. 134** of the Universities Commission (1889), and are as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Glasgow.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination prescribed by Ordinance No. 11 [General, No. 6—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance (see pp. 167—174, 179) shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard;[1] (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

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[1] **The Thesis must be lodged on or before 10th January.**

[2] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

III. (1) Candidates must in the course of not less than three Academical years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least twelve courses of instruction, in the subjects specified in Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

Under this subsection the Senate, with the approval of the University Court, has determined that of the subjects specified in Section VIII. of this Ordinance, Nos. 1, 2, 3, 4, 5, 6 and 10 shall be taught in full courses, and Nos. 7, 8, 9, 11 (*a*), 11 (*b*), 11 (*c*) and 12 in half courses, and that the number of meetings shall be those inserted in square brackets in Section VIII. opposite the several subjects.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Glasgow. The course in Agriculture and Rural Economy must also be taken in the University of Glasgow, if instruction in the said subjects be provided in the University, or in the West of Scotland Agricultural College[2]: Provided always that that course in the said College shall be accepted as equivalent to a course in the University, subject to the following conditions:—

(*a*) The Senatus Academicus shall be represented on the governing body of the Agricultural College.[2]

(*b*) All future appointments to the Chair of Agriculture in the Agricultural College[2] shall be vested in a Joint Committee, consisting of three members of the University Court and of three members of the governing body of the Agricultural College.[2]

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[1] Candidates for the Degree of B.Sc. in Agriculture may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard.

[2] An ordinance was framed by the University Court on 6th August, 1900, and approved by His Majesty in Council on 24th July, 1901, which substituted the West of Scotland Agricultural College for the Glasgow and West of Scotland Technical College.

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture: Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

Under this subsection the following regulations have been made by the Senate, with the approval of the University Court.

1. Residence and practical work at a farm for twelve months shall be required, and the candidate must not be under sixteen years of age when he commences the residence.

2. The residence must be for twelve consecutive months, except in special cases in which the Senate may grant recognition of residence during two shorter periods amounting together to at least twelve months.

3. The candidate must produce evidence, satisfactory to the Senate, that he has fulfilled these regulations.

V. All students availing themselves of the permission to attend the lectures of the teachers in the various departments of Agriculture in the West of Scotland Agricultural College, or of teachers in other approved institutions in Glasgow, or of other recognised teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science for its consideration a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the immediately preceding section shall not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow, where such exist.

VIII. The subjects of study shall be as follows:—

1. Mathematics [100 meetings].
   or Biology, *i.e.*,
      Zoology [100 meetings, viz., 50 lectures and 50 practical].
      and
      Botany, [100 meetings, viz., 50 lectures and 50 practical].
2. Natural Philosophy [100 meetings].
3. Chemistry [100 meetings and three months in Chemical Laboratory].
4. Agriculture and Rural Economy [100 meetings].
5. Agricultural Chemistry [100 meetings, viz., 50 lectures and 50 practical].
6. Geology [75 meetings, viz., 50 lectures and 25 practical demonstrations].
7. Veterinary Hygiene [50 meetings].
8. Agricultural Botany [50 meetings].
9. Agricultural Entomology [25 meetings].
10. Economic Science as applied to Agriculture [100 meetings].[1]
11. One of the following:—
    (*a*) Forestry [50 meetings].
    (*b*) Experimental Physics [50 meetings].
    (*c*) Engineering [50 meetings].
12. Engineering Field Work [50 meetings].

IX. (1) There shall be a First Science Examination in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance No. 12 [General, No. 7—Regulation for Degrees in Science].

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination in the remaining subjects (4 to 12 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

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[1] The Glasgow and West of Scotland Technical College contemplates the institution of a special class for the teaching of this subject in 50 meetings. Until this special class shall be instituted candidates are required to attend the ordinary class of Political Economy [100 meetings]. After both classes are available students will have the option of taking either. In the examination prescribed under Section X. every candidate shall be required to work a paper of questions on Economic Science as applied to Agriculture.

XII. The Examiners for the degree of Bachelor of Science in Agriculture shall be the Professors of the subjects in the Curriculum in the University of Glasgow, the Professor of Agriculture in the West of Scotland Agricultural College, and such additional Examiners as the University Court shall see fit to appoint.

### General.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

XIV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XV. This ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 13th August, 1895.

### Certificate of Proficiency in Engineering Science.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

1. Mathematics, including Analytical Geometry and Differential and Integral Calculus.
2. Natural Philosophy—the work of the Ordinary Class.
3. Chemistry.

And either :—

4, 5. Two courses in Engineering, including Laboratory Practice.
6, 7. Two courses of practical work in Drawing.
8. A course in one of the following :—
    (*a*) Astronomy and Geodesy.
    (*b*) Geology and Mineralogy.
    (*c*) Naval Architecture.
    (*d*) Engineering Laboratory, Mechanical or Electrical (special course).
    (*e*) Electricity—Pure and Applied.

Or :—

4, 5. Two courses in Naval Architecture with Marine Engineering.
6, 7. Two courses of practical work in Ship and Engineering Drawing.
8. A course in Engineering, including Laboratory Practice.

Any candidate who commenced his course previous to session 1898-99 may complete it in accordance with the regulations published in the *Calendar* of 1897-98.

No candidate is admitted to the special examination for the certificate, in any department, till he has given regular attendance upon, and duly performed the work of the prescribed course of study in that department.

## TABLE OF EXAMINATIONS FOR DEGREE OF B.SC., TO BE HELD DURING SESSION 1902-3.

| Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.[1] | FEE. | Subjects of Examination. | Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow the Written at dates to be arranged. | |
|---|---|---|---|---|
| | | | September—October, 1902. | March—April, 1903. |
| 11th September, 1902, or 12th March, 1903. | £1. 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID. | Mathematics (1st Paper), | Friday, 26th Sept., 3—6 p.m. | Friday, 27th March, 3—6 p.m. |
| | | Astronomy, - - - | Saturday, 27th Sept., 9—12 noon. | Saturday, 28th March, 9—12 noon. |
| | | Geology, - - - - | Do., do., 1—3 p.m. | Do., do., 1—3 p.m. |
| | | Mathematics (2nd Paper), | Do., do., 3—6 p.m. | Do., do., 3—6 p.m. |
| | | Zoology, - - - - | Monday, 29th Sept., 10—11.30 a.m. | Monday, 30th March, 10—11.30 a.m. |
| | | Botany, - - - - | Do., do., 12.30—2 p.m. | Do., do., 12.30—2 p.m. |
| | | Chemistry, - - - | Do., do., 3—4.30 p.m. | Do., do., 3—4.30 p.m. |
| | | Engineering Laboratory, | Do., do., 9—12 noon, and 2—5 p.m. | Do., do., 9—12 noon and 2—5 p.m. |
| | | Engineering Drawing, - | Tues., 30th Sept., 9—12 noon & 2—5 p.m. | Tues., 31st Mar., 9—12 noon and 2—5 p.m. |
| | | Naval Architecture, - | Do., do., 12.30—2.30 p.m. | Do., do., 12.30—2.30 p.m. |
| | | Ship Drawing, etc., - | Do., do., 3—5 p.m. | Do., do., 3—5 p.m. |
| | | Anatomy, - - - | Do., do., 10—12 noon. | Do., do., 10—12 noon. |
| | | Physiology, - - - | Do., do., 12.30—2.30 p.m. | Do., do., 12.30—2.30 p.m. |
| | | Engineering, - - - | Wednesday, 1st Oct., 9—12 noon, and 2—5 p.m. | Wednesday, 1st April, 9—12 noon, and 2—5 p.m. |
| | | Engineering, - - - | Thursday, 2nd Oct., 9—12 noon, and 2—5 p.m. | Thursday, 2nd April, 9—12 noon, and 2—5 p.m. |
| | | Natural Philosophy, - | Friday, 3rd October, 9—12 noon, and 2—5 p.m. | Friday, 3rd April, 9—12 noon, and 2—5 p.m. |

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[1] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

For Dates in regard to Science Preliminary Examination see page 172.

## DIPLOMA IN EDUCATION.

The following regulations drawn up by the Senate were approved by the University Court on 26th April, 1900:

1. Candidates for the Diploma in Education must be graduates in Arts or Science of a University in the United Kingdom, or of some other University recognised for this purpose by the University Court.

2. The diploma is of two grades: (*a*) General Diploma, and (*b*) Diploma with Distinction.

3. The general diploma is open to any graduate in Arts or Science who fulfils the following requirements:

(*a*) In addition to the curriculum for his Degree he must give attendance on a full course and pass the Degree examination on the same, subject to the condition that the regulations applicable to this additional course as a Degree course shall be fulfilled. This additional course may be taken at any time either before or after graduation.

(*b*) The Education course must in every case either constitute part of his Degree curriculum, or be the additional course prescribed in the preceding subsection.

(*c*) He must produce evidence either (1) that he has attended a course of Practical Instruction as a King's Scholar in a Training College for Teachers, or (2) that he has gone through a course of Practical Training in a Training College for Teachers—the course to extend over five months (not less than eight hours weekly), and to include instruction in School management, Practice in teaching, and a series of Model and Criticism Lessons.[1]

(*d*) He must pass a Written examination, conducted by the University, in School Management and Organisation and Methodology, and give proof of his practical skill by conducting a class to the satisfaction of an Examiner or Examiners appointed by the University.

N.B.—*The general Diploma is recognized by the Scotch Education Department as qualifying (in the case of graduates of the University of Glasgow) for employment in Public Schools.*

4. The Diploma with Distinction is open to any holder of an ordinary degree in Arts, any graduate in Arts with Honours, or any graduate in Science, who fulfils the requirements of the preceding regulation, and in addition passes an examination on the method of teaching one or more of the following groups of subjects as taught in Secondary Schools, viz. (*a*) Classics; (*b*) Mathematics; (*c*) Science; (*d*) English, including History; (*e*) French and German: Provided always that the holder of an ordinary Degree in Arts before being admitted to the examination on the method of teaching shall be required to pass an examination equivalent to an Honours or to a Final Science examination in the group or groups of subjects selected by him.

5. The Fee for the Diploma is Two Guineas.

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[1] Acting Teachers who produce their Parchment Certificates, or who produce evidence of having taught with success in Secondary Schools for two years, shall be held to have complied with this regulation, and may, on fulfilling the other requirements, receive the Diploma.

## 3.—HIGHER DEGREES IN ARTS AND SCIENCE.

In Ordinance No. 62, issued on 15th February, 1895, and approved by Her Majesty in Council on 29th June, 1895, the Universities Commission made the following regulations for Higher Degrees in Arts and Science :—

### DEGREE OF D.SC.

I. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by Ordinance No. 11 (Regulations for degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Science (D.Sc.) in the same University after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of Bachelor of Science.

II. Research Students within the meaning of Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows) may offer themselves for the degree of Doctor of Science of the University in which they have prosecuted some special study or research under that ordinance, although they have not taken the degree of Bachelor of Science or the degree of Master of Arts with Honours as aforesaid, in that University: Provided—

(1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognized University, or a degree of any such University, which the Senatus Academicus shall hold to be equivalent to the degree of Bachelor of Science or to the degree of Master of Arts with first or second class honours in Mathematics and Natural Philosophy : Provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Science, to pass an examination equivalent to an Honours or to a Final Science Examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of Doctor of Science shall present a thesis or a published memoir or work,[1] to be approved by the Senatus on the recommendation of the Faculty of Science[2]: Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study or of his thesis, as may from time to time be determined. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself.

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[1] The Thesis must be lodged and the fees paid on or before 10th January.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

### DEGREE OF D.PHIL.

IV. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the same University after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of Doctor of Philosophy of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

(1) That they hold the degree of Master of Arts with first or second class honours in Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of Doctor of Philosophy, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of Doctor of Philosophy shall present a thesis or a published memoir or work,[1] which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus[2]: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

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[1] See first footnote on p. 209.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

### Degree of D. Litt.

VII. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in any group other than Mathematics and Natural Philosophy or Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Letters (D. Litt.) in the same University after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of Doctor of Letters of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

(1) That they hold the degree of Master of Arts with first or second class honours in any group except Mathematics and Natural Philosophy or Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid : Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Letters, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of Doctor of Letters shall present a thesis or a published memoir or work,[1] which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus[2]: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

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[1] See first footnote on p. 209.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

### GENERAL.

X. The Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions either of Ordinance No. 12 (Regulations for Degrees in Science) or of this ordinance, for the degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them.[1] Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The Degrees of Doctor of Science in Mental Science or Doctor of Science in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of Doctor of Science in Mental Science or Doctor of Science in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of Doctor of Philosophy, or of Doctor of Letters, as the case may be, under this ordinance: Provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as Masters of Arts.

XIII. The degrees of Doctor of Science, Doctor of Philosophy, and Doctor of Letters shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum.*

XIV. The fee to be paid for the degree of Doctor of Philosophy shall be ten guineas.

XV. The fee to be paid for the degree of Doctor of Letters shall be ten guineas.

## 4.—GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

Every student who began his medical studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before or after that date.

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[1] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, empowers the University Court to appoint, as additional examiners under this section, persons who are Professors or Lecturers in any Scottish University other than the University granting the degree.

[2] These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

All others must fulfil the requirements of the new ordinance—(Ordinance No. 14, Glasgow No. 1—Regulations for Degrees in Medicine)—the principal provisions of which are as follows :—

I. Four degrees in Medicine and Surgery are conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

III. Before commencing his medical studies, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German : Provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.[1]

IV. The extent and standard of the Preliminary Examination shall be determined by the Joint-Board of Examiners constituted under Ordinance No. 13 (Regulations as to Examinations) in accordance with the terms of that ordinance.

Under this section the Joint-Board have directed that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination.[2]

In English, no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including correction of sentences, parsing, analysis of sentences, and derivations), two of a literary and general kind. Eight answers shall be required. The Essay, the Paraphrase, one answer on History and one on Geography shall be compulsory.

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[1] The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 54 George Square, Edinburgh, together with a printed form of application, which may be obtained from the Assistant Clerk (Matriculation Office, University), a certificate of having passed the Preliminary Examination, and satisfactory evidence of the applicant having attained the age of sixteen years.

[2] For details see p. 169.

One paper shall be set in French and one in German. The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, a piece of English, and some short sentences in English of an idiomatic character, for translation.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects.

Candidates who, having taken English, Latin, Greek, Mathematics, or a Modern Language, on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects: Provided that all the required subjects are passed at no more than two examinations.

It shall be at the Board's discretion at all times in the case of any candidate for the Medical Preliminary who professes all his four subjects at one time, and who has obtained in all a number of marks equivalent to the sum of the marks required for a pass in each, to allow such candidate a pass in the whole examination, provided that in no single subject he has obtained less than half of the marks required for a pass, and that the pass-mark be reached in the English paper.

V. The Preliminary Examination shall be conducted in accordance with the provisions of Ordinance No. 13 (Regulations as to Examinations), and, subject to the provisions of the immediately succeeding section hereof, *a candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; Provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.*[1]

VI. A degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint-Board of Examiners appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the Preliminary Examination.

The Joint-Board have issued the following rules under the heading:—Examinations accepted as exempting from the Preliminary Examination in Medicine: *Provided always that the regulations of the General Medical Council regarding the registration of students of Medicine be complied with*:—

1. In terms of the Medical Ordinances, "a degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination."

2. Any candidate who produces a certificate of having passed the Preliminary Examination in Arts or Science in any Scottish Uni-

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[1] The words in *italics* are taken from Ordinance No. 156, Section I.

versity, either at the University Examination or through the Leaving Certificate Examinations of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificate Examinations, shall be held to have passed the Preliminary Examination for Medicine: Provided that the examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by Section III. of this ordinance.

3. A candidate who has passed the Arts and Science Preliminary Examination of the Joint-Board in any subject (Higher Standard where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

4. A candidate who has passed the Leaving Certificate Examinations (Honours or Higher Grade) of the Scotch Education Department in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

The regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply to the above cases, 2, 3, and 4. But candidates complying with Rules (2, 3, and 4) must obtain a University Certificate specifying the examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said certificate to the Medical Registrar in order to registration.

Further, each such candidate when applying for said certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

5. The lower Grade Leaving Certificate Examinations of the Scotch Education Department will only be accepted as exempting from the Medical Preliminary Examination provided the examinations in all the requisite subjects have been taken and passed at one or not more than two examinations.

6. The following English and Irish University Examinations will be accepted[1] (provided they include all the subjects required under the regulations of the General Medical Council, and prescribed by Section III. of this ordinance), viz.:—

OXFORD Responsions, or Moderations—provided the candidate pass the examination of the Joint-Board in English.

CAMBRIDGE Previous Examination—provided that candidates who have passed it prior to Michaelmas, 1896, shall pass the examination of the Joint-Board in English. If passed after Michaelmas, 1896, the Previous Examination will be accepted as exempting *in toto*.

OXFORD Senior Local Examinations will be accepted *pro tanto*, provided that, as regards English, the certificate shall bear that the candidate has passed in divisions (*a*), (*b*), and (*c*).

OXFORD Higher Examination for Women will be accepted *pro tanto*.

CAMBRIDGE Senior Local Examinations will be accepted *pro tanto*.

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[1] The italicised words in Section V., page 214, shall be held to apply to the acceptance of these Examinations.

Cambridge Higher Local Examinations will be accepted *pro tanto*.

Oxford and Cambridge Schools Examination Higher Certificate will be accepted *pro tanto*, provided that, as regards Mathematics, the certificate shall bear that the candidate has passed in both Elementary and Additional Mathematics.

London University Matriculation Examination.

Dublin, Trinity College.—Public Entrance Examination.

Royal University of Ireland.—Matriculation Examination.

Victoria University.—Preliminary Examination; Entrance Examination in Arts.

By *pro tanto* is here meant that a certificate of having passed in the examination referred to, in any subject required for the Medical Preliminary Examination, shall, as regards that subject, exempt from further examination in the said Preliminary Examination, provided that all the required subjects shall be passed at one or not more than two examinations.

7. The examinations of the following Indian, Colonial, and Foreign Universities and Colleges will be accepted[1] (provided the examinations include all the subjects required by the General Medical Council and prescribed by Section III. of this ordinance), viz.:—

Universities of (1) Calcutta, (2) Madras, (3) Bombay, (4) Allahabad, and (5) Panjab—Entrance Examination.

Universities of (1) The Cape of Good Hope.—Matriculation Examination; (2) Tasmania.—Matriculation Examination; (3) New Zealand.—Matriculation and Medical Preliminary Examinations; (4) Melbourne.—Matriculation Examination; (5) Sydney.—Matriculation Examination; (6) Adelaide.—Matriculation Examination, or its substitute, the Senior or Junior Public Examination.

The Provincial Education Department of Ontario.—Departmental Pass Arts Matriculation Examination.

Trinity University, Toronto.—Matriculation Examination.

The University of Toronto.—Senior or Junior Matriculation Examination.

Queen's College and University, Kingston.—Matriculation Examination.

M'Gill University.—Matriculation Examination.

King's College, Windsor, Nova Scotia.—Responsions.

Dalhousie College, Halifax.—Matriculation Examination.

Mount Allison College, Sackville, New Brunswick.—Matriculation Examination.

The University of Winnipeg.—Preliminary Examination in Arts.

Victoria College, Upper Canada.—Matriculation Examination.

The University of Halifax, Nova Scotia.—Matriculation Examination.

The University of Fredericton, New Brunswick.—Matriculation Examination.

The Western University of Ontario.—Matriculation Examination.

The University of Manitoba.—Previous Examination.

Codrington College (Barbados).—English Certificate for

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[1] See note on p. 215.

Students of two years' standing; and Latin Certificate, or "Testamur."

Germany and other Continental Countries.—Gymnasial Abiturienten-Examen, and corresponding Entrance Examinations to the Universities.

8. In the case of candidates for the Medical Preliminary Examination, who hold qualifications from Foreign or Colonial Bodies, other than Universities, whose certificates are not included in the list of Equivalent Examinations issued by the Joint-Board, a committee in each University, consisting of the Deans of the Faculties of Arts, Science, and Medicine, is empowered to accept such certificates, if it deems them sufficient, provided that all such cases are reported to the Joint-Board at their meeting next following.

**[Students would do well to ascertain at the Matriculation Office whether their Preliminary Examination is complete before beginning their medical studies.]**

### Professional Education.[1]

VII. Candidates shall be admitted to the Degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—

| | |
|---|---|
| 1. Anatomy, | During a course of not less than five months. |
| 2. Practical Anatomy, | During two courses of not less than five months each. |
| 3. Chemistry, | During courses of not less than five months |
| 4. Materia Medica and Therapeutics, | |
| 5. Physiology or Institutes of Medicine, | |
| 6. Practice of Medicine, | |
| 7. Surgery, | |
| 8. Midwifery and the Diseases peculiar to Women and Infants. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months, | |
| 9. Pathology, | |

For Order of Study recommended, see p. 93.

| | |
|---|---|
| 10. Practical Chemistry, | During courses of not less than two and a half months. |
| 11. Physics (including the Dynamics of Solids, Liquids, and Gases, and the Rudiments of Sound, Heat, Light, and Electricity), | |
| 12. Elementary Botany, | |
| 13. Elementary Zoology, | |
| 14. Practical Physiology, | |
| 15. Practical Pathology, | |
| 16. Medical Jurisprudence and Public Health, | |

Provided always, in so far as regards the University of Glasgow, that—

(*a*) It shall be the duty of the Senatus to determine from time to time [after receiving through the Faculty of Medicine the opinion of the Board of Studies] the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course ; and to report the determination to the University Court for its approval.[1]

(*b*) It shall be the duty of the Professors and Lecturers to submit to the Senatus [after 1st October, 1894, the Board of Studies] annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.[1]

(*c*) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.[2]

6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.

7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical

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[1] The Universities Commission, on 18th November, 1893, ordained that for the better carrying out of the purposes of these provisos the Senate should institute a Board or Boards of Studies in the Faculty of Medicine. See Section I., Ordinance No. 42, which received the approval of Her Majesty in Council on 28th May, 1894. The provisions of this supplementary ordinance have, in the text, been combined with the provisions of the original ordinance, by means of square brackets.

[2] On 7th October, 1892, the University Court recognised every General Hospital in the United Kingdom which accommodates not fewer than eighty patients, *and possesses a distinct staff of physicians and surgeons.*

Medicine, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.

8. The candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.

   Under this sub-section the Senate, with the approval of the University Court, has determined that each candidate for the Degree of M.B. and Ch.B. shall be required to attend a course of instruction in Mental Diseases, given by the University Lecturer or by a recognised teacher, consisting of not less than eighteen meetings. Six of these may be class-room lectures, and the others shall be demonstrations in the wards of an asylum for the insane.

9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society, *i.e.* in *the establishment of any chemist and druggist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.*[1]

10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying at an hospital or dispensary *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.

    Under this sub-section the Senate, with the approval of the University Court, has determined as follows:—

    A. Each candidate for M.B. and Ch.B. shall be required to attend—

    1. Demonstrations in the *post-mortem* room of a recognised hospital, with practical instruction in making *post-mortem* examinations. The student must have attended during his curriculum at least twenty examinations.
    2. A course of clinical instruction in Fevers, consisting of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds.
    3. A practical course of instruction in Ophthalmology of not less than twenty meetings. Six of these may be class-

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[1] The explanatory words in italics are taken from Ordinance No. 54, Section II., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

room lectures, and the others shall be for clinical instruction in the wards of a recognised hospital,[1] or in the wards of a hospital and in a dispensary both recognised for the purpose. The course shall include sufficient practical instruction in the methods of examining the eye.

B. Each candidate is also recommended to attend the following:—(*a*) Diseases of Children, (*b*) Diseases of the Ear, (*c*) Diseases of the Throat and Nose, and (*d*) Diseases of the Skin, in short practical courses of ten meetings.

*N.B.*—This is not to be understood as preventing a teacher in any speciality giving a fuller course to such students as may desire to follow out more fully any particular branch.

11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.[2]
13. No candidate for a degree shall be deemed to have attended a class as part of the curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the places and institutions at which the studies of the candidate may be prosecuted, the following regulations shall have effect:

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VII., sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such medical schools or under such teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., sub-section 2.
3. Of the subjects of study specified in Section VII., sub-section 4, not less than eight must be taken in the University of Glasgow, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial Univer-

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[1] This means a hospital recognised *ad hoc*, after application to the University Court in each case.

[2] The recognised Vaccine Departments in Glasgow are—Western Infirmary and Royal Infirmary.

sity entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.

4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such medical schools or under such teachers as may be recognised for the purpose by the University Court.

5. All candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.

6. The fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow shall be not less than the amount exigible for the corresponding courses in the University.

7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other teacher in any endowed public College or institution, who by the terms of his appointment is required to teach more than one subject of medical study therein, may be recognised under sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.

8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this ordinance by her Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.

9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one course of five or six months, or of two and a half or three months, as the case may be.[1]

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect: Provided also that *the provisions of this section shall not have effect except where the University Court shall allow their application after a report by the Senatus Academicus, setting forth special grounds therefor in the case of any candidate named in the report.*[2]

### PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.[3]

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics, *Third*, in Pathology, and Medical Jurisprudence and Public Health; *Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a degree in Science or in Arts, granted in either case after a course of study and an examination in Botany,

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[1] Doubt being entertained as to the construction of this Section, the question was submitted to the Universities Commissioners, and evoked from them the following deliverance:—

It is not intended to require of the Professor a complete course of instruction by lectures during each session, or to limit the examinations for degrees to subjects which shall be discussed in the lectures of the Professor at the time that the student attended the course. The word "instruction," as used in this Section, is to be held to include lectures upon such parts of the subject as the Professor may be able to overtake, supplemented by directions as to the use of text-books or other sources of information for the remainder of the subject: and it is also intended that the examinations may be taken over the whole field, even when the Professor has not been able to include it all in his course of lectures.

[2] The proviso in italics is taken from Ordinance No. 54, Section V., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

[3] For Table of Fees and Dates of Examinations, see page 229.

Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

Provided also that *if a candidate have completed in a University of the United Kingdom a course of study and passed an examination in Botany, Zoology, Physics, or Chemistry qualifying for a degree in Science or in Arts, he shall be held to have passed the examinations in such subject or subjects.*

*If a candidate have obtained a degree in Science or in Arts in any University other than a University of the United Kingdom, granted in either case after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, it shall be in the power of the University Court to exempt such candidate from the examinations in such subject or subjects: Provided that the course of study and the standard of examination in each case are satisfactory in the judgment of the Senatus Academicus.*[1]

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz.:—Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examination in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in Materia Medica and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in Medical Jurisprudence and Public Health until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

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[1] The words in italics are taken from Ordinance No. 54, Sections III. and IV., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.[1]

XX. Candidates for graduation shall produce evidence of their having conformed to the regulations which were in force at the time they commenced their medical studies: Provided that any student who began his medical studies before 1st January, 1892, shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before[2] or after that date.

## Professional Examination for the Degree of Doctor of Medicine.

XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Medicine for the Degree of Doctor of Medicine shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard shall be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.

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[1] For Table of Fees and Dates of Examination, see page 229.

[2] These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

Provided always that one of the cases on which a candidate is examined may, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Diseases of Women, Diseases of Children, Mental Diseases, Zymotic Diseases, Diseases of the Eye, Diseases of the Throat, Diseases of the Ear, Diseases of the Skin. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

The examinations for M.D. will be held in the month of November or December, each Session. Candidates must enter their names and lodge their Theses with the Assistant Clerk (Matriculation Office) on or before 1st October.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical ; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself,[1] shall be lodged with the Dean of the Faculty of Medicine (at the Matriculation Office) on or before a date to be fixed by the Senatus (1st October).

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such degrees ; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

*Bachelors of Medicine and Masters of Surgery of the University of Glasgow, who have graduated under the regulations in force before the fifth day of August*, 1892, *may proceed to the Degree of*

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[1] The Faculty of Medicine give notice that no Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted.

*Doctor of Medicine under the provisions of this section, in the same manner as if they held the Degree of Bachelor of Surgery.*[1]

## Professional Examination for Degree of Master of Surgery.

XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Surgery for the Degree of Master of Surgery shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable on at least three Surgical cases.

Provided that one of the three Surgical cases on which a candidate is examined shall, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Surgical Diseases of Women, Diseases of the Throat, Diseases of the Eye, Diseases of the Ear. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself,[2] shall be lodged with the Dean

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[1] Taken from Ordinance No. 54, Section VI., which was issued by the Universities Commissioners on 18th July, 1894, and came into operation on 11th May, 1895, having on that date been approved by Her Majesty in Council.

[2] See footnote on previous page.

of the Faculty of Medicine on or before a date to be fixed by the Senatus.

4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this section, at any period of examination after he has received such degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

### Fees.

XXIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

### Examiners.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary: Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

### Distinctions attainable by Students and Graduates of Medicine.

Candidates who have shown special merit in any subject or subjects at any of the Professional Examinations will be announced as having passed in such subject or subjects "with distinction."

Candidates who have shown special merit as indicated by the aggregate results of the four Professional Examinations will be announced, at the time of Graduation, as having obtained Commendation or Honours, according to the degree of excellence.

In connection with the Higher Degrees in Medicine and Surgery two grades of distinction are also awarded, viz., Commendation and Honours. The Bellahouston Trustees have announced their intention of enabling the University to award three Gold Medals yearly to those who having gained Honours shall be pronounced by the Senate on the Report of the Faculty of Medicine worthy of this highest distinction for the excellence of their Theses.

### GRADUATION.

The terms for conferring Medical and Surgical Degrees in session 1902-3 are 6th November, 1902 ; 5th February, 1903 ; 21st April, 1903 ; and 21st July, 1903.

Candidates proceeding to graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict., ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, formerly required to be taken and subscribed by every candidate on graduation :—

I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge.

### REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 54 George Square, Edinburgh. Fee £5 1s. Additional qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

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[1] *The Oath was in these words:*—Testor Deum omnipotentem me hoc Iusjurandum pro virili servaturum : Victus rationem aegris commodam et salutarem praescripturum : nullius intercessione nec sponte noxium pharmacum cuiquam propinaturum ; sed sancte et caste vitam artemque meam instituturum ; In quascunque domos intravero ad aegrotantium duntaxat salutem ingressurum et ab omni injuria inferenda procul futurum : Quaecunque inter curandum videro audiverove siquidem ea efferre non expediat silentio suppressurum.

# TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1902-3.

| Fees. | Names to be given in and Fees paid to Assistant-Clerk[1] (Matriculation Office). Date.[2] | Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant-Clerk[1] (Matriculation Office). The Professional Oral Examinations follow immediately after the Written. | | |
|---|---|---|---|---|
| Under the Old Regulations the Fee for each Professional Examination is £5 5s.; under the New, the Fees are—First, £6 6s.; Second, £6 6s.; Third, £5 5s.; Fourth, £5 5s. | 11th September, 1902, | 1902.<br>Mon., 29th Sept., - Zoology - - - 10—11.30 a.m. | Botany - 12.30—2 p.m. | Chemistry 3—4.30 p.m. |
| | | Mon., 29th ,, - Materia Medica - 10—12 noon. | | |
| | | Tues., 30th ,, - Physics - - - 10—12 noon. | Anatomy - 10—12 noon. | Physiology 12.30—2.30 p.m |
| | | Wed., 1st Oct., - Med. Jurisp. (N.R.) 10—1 p.m. | Pathology - 3—5 p.m. | |
| | 12th March, 1903, | 1903.<br>Mon., 30th March, Zoology - - - 10—11.30 a.m. | Botany - 12.30—2 p.m. | Chemistry 3—4.30 p.m. |
| | | Mon., 30th ,, - Materia Medica - 10—12 noon. | | |
| | | Tues., 31st ,, - Physics - - - 10—12 noon. | Anatomy - 10—12 noon. | Physiology 12.30—2.30 p.m. |
| | | Wed., 1st April, - Med. Jurisp. (N.R.) 10—1 p.m. | Pathology - 3—5 p.m. | |
| | 28th May, 1903, | 1903.<br>Thurs., 18th June, - Practice of Medicine 10—12 noon. | Surgery - 2—4 p.m. | |
| | | Fri., 19th ,, - Midwifery - - 10—12 noon. | | |
| | | Fri., 19th ,, - (*Clinical Examinations begin*). | | |
| | | Mon., 22nd ,, - Medical Jurisp. (O.R.) 10—12 noon. | | |
| | | Tues., 23rd ,, - Pathology (O.R.) - 10—12 noon. | | |

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[1] For Women Students, Miss Galloway, Queen Margaret College.

[2] When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary Certificates, etc., lodged. Every candidate must matriculate at the University for the session in which he enters for professional examination or for graduation.

For Dates in regard to Medical Preliminary Examination, see page 172.

## 5.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification, except as stated on page 113.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893.

### Degree of LL.B.

The following are the provisions of Ordinance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894,[1] began their course of study with a view to graduation in Law:—

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts or one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognised for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects:—

(1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.

(2) The Law of Nations or Public International Law, during a course of not less than forty lectures.

(3) Civil Law during a course of not less than eighty lectures.

(4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.

(5) Constitutional Law and History, during a course of not less than eighty lectures.

(6) Conveyancing, during a course of not less than eighty lectures; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.

(7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least must be spent in the University in which the candidate intends to graduate, the other two may have been spent in any other University or School of Law specially recognised by the University Court.

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[1] Students who began their course previous to 1894 may qualify themselves for graduation in Law under the old regulations, which are given at pp. 227-229 in the *University Calendar* for 1900-1901 and in the *Calendars* for preceding sessions.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the Examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as Bachelor of Laws in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Laws without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

### Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law.

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) unless he be a graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court; or until he shall have passed—

*A*. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in Ordinance No. 11 (General No. 6.—Regulations for Degrees in Arts); and

*B*. An Examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the standard of examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures; [1]or a half course in Civil Law where in any University a full course is not available: Provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half course in one or other of the following branches of Law:—

(*a*) Jurisprudence, General or Comparative.
(*b*) The Law of Nations, or Public International Law.
(*c*) Constitutional Law and History.
(*d*) International Private Law.
(*e*) Mercantile Law.
(*f*) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.

3. Conveyancing, during a course of not less than eighty lectures.

4. Forensic Medicine during a course of not less than forty meetings of the class; or, in the option of the candidate, a half course in one of the branches of Law specified in Sub-section 1 of this section [1]if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but one at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed, at the University in which he intends to graduate.

IV. The candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

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[1] The remainder of this sub-section does not apply to the University of Glasgow which provides a full course in Civil Law.

V. Every candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Law without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

## SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in session 1902-3 will embrace the following books and subjects, viz. : —

*In Civil Law.*—Institutes of Justinian (Ed. Moyle or Sandars) and the Class Lectures ; also Dig., Lib. XVIII., Tit. I.—translated and annotated by Mackintosh—Roman Law of Sale.

*In the Law of Scotland.*—In addition to the Class Lectures, the books recommended are Bell's Principles of the Law of Scotland, and Erskine's Principles of the Law of Scotland. In Criminal Law, Macdonald's Criminal Law and Erskine's Principles. Recent editions of the works mentioned should be used.

*In Conveyancing.*—In addition to the Class Lectures, the books recommended are Duff's Feudal Rights, with Supplement ; Lectures on Conveyancing, by Menzies ; Lectures on Conveyancing, by A. M. Bell ; and Craigie's Statutes.

*In Mercantile Law.*—Bell's Commentaries by M'Laren, Vol. I., pages

546 to 678; Carver on Carriage by Sea; Thorburn's Bills of Exchange Act, 1882; Partnership Act, 1890.

*In Jurisprudence, General or Comparative.*—Holland's Jurisprudence (any edition after the fourth); Maine's Ancient Law; Miller's Philosophy of Law. Reference may also be made to Hearn's The Aryan Household, Sidgwick's Elements of Politics, Seeley's Introduction to Politics, Pollock's Jurisprudence, and Holmes' The Common Law.

*In the Law of Nations, or Public International Law.*—Hall's International Law. Candidates are expected to show a general acquaintance with the history of Modern Europe. Pitt Cobbett's Leading Cases, and Tudor's Leading Cases in Mercantile and Maritime Law will be found useful for reference.

NOTE.—Candidates under the old regulations for LL.B. are required to sit also at the papers on Jurisprudence and International Private Law.

*In International Private Law.*—Rattigan's Private International Law, with the Scots cases referred to in the Class Lectures.

*In Constitutional Law and History.*—(1) The Outlines of English Constitutional History; (2) Existing Constitutional Law. Authorities recommended: Taswell-Langmead's English Constitutional History; Anson's Law and Custom of the Constitution, Vol. I.; Dicey's Law of the Constitution; Leading Cases in Constitutional Law, by Thomas.

NOTE.—Candidates for B.L. will only be examined on the half course of lectures they have attended, and on Taswell-Langmead's English Constitutional History.

*In Forensic Medicine*—Signs of Death with relation to Crime; Proximate Causes of Death; Medico-legal Forms of Death; Identity; Survivorship; Wounds; Blood-stains and their Detection; Insurance; Sexual Crimes:—Rape and Criminal Abortion; Pregnancy in its Medico-legal aspects; Infanticide and Concealment of Pregnancy; Divorce in its Medico-legal relations; Legitimacy and Paternity; Evidence of Poisoning; Poisoning by Prussic Acid, Oxalic Acid, and Chloral; Alcoholism in its Medico-legal aspects; Insanity. (*Text-books*, Principles of Forensic Medicine: Guy and Ferrier; or Manual of Forensic Medicine: Dixon Mann.)

*In Political Economy and other Arts Subjects.*—The subjects of examination for the Degree of M.A.

No candidate for the Degree of B.L. is admitted to an examination in Law subjects until he has passed in all the subjects of the preliminary examinations, and not fewer than two subjects in Law can be taken up at one examination, except in case of candidates for the Degree of B.L. under the new regulations.

## TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1902-3.

| Fee.[1] | Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.[2] | Subjects of Examination. | DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET. | |
|---|---|---|---|---|
| | | | September-October, 1902. | March-April, 1903. |
| £1 1s. on each entry for Examination, and balance, if any, before Graduation. Total Fees—LL.B. £6 6s., B.L. £5 5s. | 17th Sept., 1902, or 10th March, 1903. | Constitutional Law, - | Mon., 29th Sep., 9—12 noon. | Mon., 30th March, 9—12 noon. |
| | | Civil Law, - - - | ,, ,, ,, 2—5 p.m. | ,, ,, ,, 2—5 p.m. |
| | | Scots Law, - - - | Tues., 30th ,, 9—12 noon. | Tues., 31st ,, 9—12 noon. |
| | | Public Internat. Law, - | ,, ,, ,, 2—5 p.m. | ,, ,, ,, 2—5 p.m. |
| | | Jurisprudence, - - | Wed., 1st Oct., 9—12 noon. | Wed., 1st April, 9—12 noon. |
| | | Internat. Private Law, | ,, ,, ,, 2—5 p.m. | ,, ,, ,, 2—5 p.m. |
| | | Political Economy, - | ,, ,, ,, 6—9 p.m. | ,, ,, ,, 6—9 p.m. |
| | | Conveyancing, - - | Thurs., 2nd ,, 9—12 noon. | Thurs., 2nd ,, 9—12 noon. |
| | | Forensic Medicine, - | ,, ,, ,, 2—5 p.m. | ,, ,, ,, 2—5 p.m. |
| | | Mercantile Law, - - | Friday, 3rd ,, 9—12 noon. | Friday, 3rd ,, 9—12 noon. |

For Dates of the Preliminary Examination and of the Examinations in Arts subjects necessary for B.L., see pp. 172 and 194.

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[1] Under the old regulations the fee for LL.B. is £5 5s.; for B.L., £3 3s.

[2] When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

## 6.—GRADUATION IN DIVINITY.

### Degree of Bachelor of Divinity.

In Ordinance No. 63 the Universities Commission laid down the following regulations for this degree :—

I. No one shall be admitted to examination[1] as a candidate for the Degree of Bachelor of Divinity (B.D.) in any University unless he be (1) a graduate in Arts of that University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose of this ordinance by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions;[2] or (2) a graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and have completed his Theological Course, of which not less than two years' attendance shall have been given in the University in which he presents himself for examination.

II. The examination shall in all cases be conducted at the seat of the University granting the degree, and the Examiners shall be the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.[1]

III. Every student who at the time when this ordinance shall come into operation shall have completed a part of his Theological Course with a view to graduation as Bachelor of Divinity in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Divinity without complying with the provisions of this ordinance.

IV. The Degree of Bachelor of Divinity shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum.*

This degree is conferred on such qualified candidates as have satisfied the Examiners of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.
II. Divinity, Church History, and Biblical Criticism.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their course in Arts, may present themselves for examination in the First Department. Candidates are not admitted to examination in their Second Department *until they have completed their Theological Course.*

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[1] Ordinance No. 154 gives the Senatus Academicus power to admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological course.

[2] The University Court has recognised *pro tanto* every Theological College in the United Kingdom having a distinct staff of teachers for the separate subjects, in so far as the Theological course is subsequent to the Arts course.

The scheme of examination for session 1902-1903 is as follows :—

I. First Department—

(*a*) *Hebrew.*—(1) Jeremiah xxvi.—lii.; (2) Psalms lxxiii.—lxxxix.; (3) Portions of unpointed Hebrew to be punctuated and translated ; (4) Translations from English into Hebrew.

Books which may be consulted :

The relative portions of Driver's Introduction to the Literature of the Old Testament, in which will be found lists of the Commentaries on the books prescribed ; 'Men of the Bible' Series, Jeremiah, by Cheyne ; Müller's or Davidson's Hebrew Syntax ; Robertson's Hebrew Exercises.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Acts of the Apostles ; (2) Exegesis of Mark i. 1—viii. 26, with critical comparison of the parallel passages in Matthew and Luke ; (3) Exegesis of the Pastoral Epistles.

Books which may be consulted :

(1) Lekebusch, Die Composition und Entstehung der Apostelgeschichte ; Spitta, Die Apostelgeschichte ; (2) The relative Commentaries of Meyer, De Wette, Morison, or Alford ; Bleek, Synoptische Erklärung der drei ersten Evangelien ; (3) The Commentaries of Alford or Ellicott.

(*c*) *Apologetics.*—(1) Philosophy of Religion as in Kant, Hegel, and Max Müller ; (2) Apologetics as in the Ancient Church ; (3) Butler's Analogy of Religion (in connection with the Deistical Controversy).

Books which may be consulted :

Kant and Hegel as translated, or as in Pfleiderer's Philosophy of Religion ; Max Müller's Introduction to the Science of Religion ; the Apologies of Aristides, Justin Martyr, Tertullian and Origen ; Gladstone's Studies Subsidiary to the Works of Bishop Butler, and Pünjer's Account of English Deism.

II. Second Department—

(*a*) *Divinity.*—(1) The Doctrine of God, including the Proofs of the Existence of God and the Doctrine of the Trinity ; (2) Christology, including theories of the Incarnation and the Christological Controversies ; (3) Biblical Theology of the Epistles to the Romans and to the Hebrews, *or* the Church and the Sacraments.

Books which may be consulted :

The Systematic Theologies of Hodge, Dorner, and Oosterzee ; Dorner's Person of Christ ; Biblical Theologies of Weiss and Beyschlag and Dr. Bruce on Hebrews.

(*b*) *Church History.*—From the birth of Wycliffe (*c.* 1324) to the publication of Luther's Thesis on Indulgences (1517).

Books which may be consulted :

English Chronicles and Memorials (Rolls Series) ; Lechler, Johann von Wiclif (translated by Lorimer); G. U. Trevelyan, Age of Wycliffe ; Villari, Life and Times of Savonarola ; Eras of the Christian Church—'The Age of the Great Western Schism' (Locke); Creighton, History of the Papacy ; Milman, History of Latin Christianity ; Kurtz ; Gieseler ; Mosheim ; Gibbon ; Stubbs, Constitutional History of England.

(*c*) *Biblical Criticism.*—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted :

(1) Davidson, Biblical Criticism ; Tregelles, Treatise in Horne's Introduction, Vol. IV.; Scrivener, Introduction to the Criticism of the New Testament (fourth edition) ; Westcott and Hort, Prolegomena to the Greek Testament ; Nestle, Textual Criticism of the Greek New Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, Vol. II.; Ernesti, Institutio Interpretis ; Immer, Hermeneutik des Neuen Testamentes.

The scheme of examination for session 1903-1904 will be as follows :

I. First Department—

(*a*) *Hebrew.*—(1) Isaiah i.—xx. ; (2) Psalms xc.—cvi. ; (3) Portions of unpointed Hebrew to be punctuated and translated ; (4) Translations from English into Hebrew.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Gospel according to Luke ; (2) Exegesis of Luke ix. 51—xviii. 14, with critical comparison of the parallel passages in Matthew and Mark ; (3) Exegesis of the Pastoral Epistles.

(*c*) *Apologetics.*—(1) Philosophy of Religion ; (2) Christian Apologetics ; (3) Butler's Analogy.

II. Second Department—

(*a*) *Divinity.*—(1) The Person and Work of Christ ; (2) The Church and the Sacraments ; (3) Christian Ethics, *or* the Ritschlian Theology.

(*b*) *Church History.*—The Ecclesiastical History of England, Scotland, and Ireland in the Sixteenth Century (1500-1600).

(*c*) *Biblical Criticism.*—(1) Textual Criticism ; (2) Hermeneutics.

## TABLE OF EXAMINATIONS FOR DEGREES IN DIVINITY, FOR BLACK THEOLOGICAL FELLOWSHIP, FOR FINDLATER SCHOLARSHIP, AND FOR JAMIESON PRIZE, TO BE HELD DURING SESSION 1902-3.

| Department. | Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.[1] | Fee. | Dates of Written Examinations and Hours at which the different Papers will be set. | | |
|---|---|---|---|---|---|
| First. | 15th October, 1902. | £2 12s. 6d. | Tues., 21st Oct., 1902. | Hebrew, - - - | 9—12 noon. |
| | | | ,, ,, | Hebrew, - - - | 2—5 p.m. |
| | | | Wed., 22nd Oct., 1902. | Apologetics, - - | 9—12 noon. |
| | | | ,, ,, | New Testament Exegesis, | 2—5 p.m. |
| Second. | 27th March, 1903. | £2 12s. 6d. | Thurs., 2nd April, 1903. | Divinity, - - - | 9—12 noon. |
| | | | ,, ,, | Textual Criticism, - | 2—5 p.m. |
| | | | Frid., 3rd April, 1903. | Church History, - | 9—12 noon. |
| | | | ,, ,, | Hermeneutics, - - | 2—5 p.m. |

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[1] Forms of application for examination may be obtained at the Matriculation Office. These forms, when filled up, must be forwarded by the candidates to the Dean of the Faculty of Theology, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant-Clerk (Matriculation Office) on or before the date prescribed above. In entering for the Second Department candidates from other schools must produce, in addition to class certificates, evidence that they have completed, or are about to complete, their Theological Course.

## 7.—HONORARY DEGREES.

* The powers of the Senatus Academicus to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commission (1889) of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

### Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the Senatus Academicus from the other Faculties.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus Academicus for the degree; but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present a reasoned report, embodying its recommendations to the Senatus.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz. :—

(*a*) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.

(*b*) Whether he has published a contribution of merit to Theological Literature.

(*c*) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

### Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the Senatus Academicus may determine, provided that the total number of the committee shall not exceed twelve.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus for the degree, but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present to the Senatus a reasoned report embodying its recommendations.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

(*a*) Whether he is an alumnus of this or any other University, and whether he already holds any academical degree.

(*b*) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.

(*c*) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

## Academic Dress.

### GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.[1]

The Hoods for the different degrees, as approved by the University Court on 19th May, 1893, are as follows :—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europœa*).

D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.

B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).

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[1] The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.

LL.D., Scarlet Cloth, lined with Venetian Red Silk.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

### UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to academic dress; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the academical dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper academic dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

### CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate:—

All degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for graduation are required to appear in black gowns with the hoods appropriate to their degrees; those who are already graduates, in the costume proper to their previous degree.

## *IX.—BURSARIES, SCHOLARSHIPS, Etc., PRIZES.*

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations. In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, etc., by a "preference" the Senate understand, in every instance, a preference *cœteris paribus.*

The following is the general ordinance issued by the Universities Commission with regard to Bursaries, Scholarships, and Fellowships, which have taken effect prior to the 30th day of August, 1864 :—

### ORDINANCE NO. 57 (GENERAL, NO. 19.—REGULATIONS AS TO BURSARIES, SCHOLARSHIPS, AND FELLOWSHIPS).

### GENERAL.

I. For the purposes of this ordinance, bursaries in the Faculty of Arts (hereinafter referred to as bursaries in Arts) shall be deemed to be the bursaries now attached to the said Faculty by Deed of Foundation or by custom.

II. Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study approved by the Senatus Academicus in subjects included in the curriculum for Degrees in Arts or in Pure Science.

III. All bursars in Arts, subject to the provision as to the fourth year of tenure contained in the immediately preceding section, shall attend in each year at least two classes qualifying for graduation in Arts, and shall duly perform the work of these classes: Provided (1) that, for the purposes of this section, the classes known as Middle Classes, so long as the same exist, may be attended in place of classes qualifying for graduation; and (2) that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select to attend classes qualifying for graduation in Pure Science in place of classes qualifying for graduation in Arts.

IV. It shall be in the power of the Senatus Academicus to suspend or deprive a bursar, scholar, or fellow on the ground of misconduct, or, if it think fit, on the ground of his failure to obtain class certificates, or to produce such other evidence as may be required that he is prosecuting his studies in a manner satisfactory to the Senatus Academicus.

V. Bursaries in Divinity heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study in Divinity approved by the Senatus Academicus.

VI. In the case of a bursary, scholarship, or fellowship, not in the gift of a patron, becoming vacant by forfeiture or otherwise before the expiry of the period of tenure, it shall be in the power of the Senatus

Academicus, with the approval of the University Court, to determine as to the disposal thereof, or of the income thereof, during the remainder of the said period.

VII. Any bursary tenable in several Faculties successively shall not be attached to any one of such Faculties in any year other than a year in which in ordinary rotation it would have been attached to such Faculty.

VIII. It shall be in the power of the Senatus Academicus to require, as a condition of tenure, any holder of a scholarship or fellowship who is a graduate to engage in teaching within the University or to conduct tutorial classes, unless he shall satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research.

IX. Each Examiner at competitions for bursaries, scholarships, or fellowships shall receive suitable remuneration, and it shall be in the power of the University Court to charge the funds of bursaries, scholarships, or fellowships with the necessary expenses of examination.

### Open Bursaries.

X. (1) The subjects of the examination for open bursaries in Arts of the first year shall be the subjects prescribed for the Preliminary Examination in Arts instituted by Ordinance No. 11 (General, No. 6—Regulations for Degrees in Arts), Section III. The examination shall be taken at the Spring or the Autumn Preliminary Examination, according as the University Court shall determine, and shall be upon the same papers: Provided that the Senatus Academicus may, for purposes of competition, subject candidates to any further test that may be deemed necessary.

(2) Candidates for such bursaries who select in the Bursary Competition Examination, Latin, Greek, or Mathematics, shall, for the purposes of the competition, take the papers of the higher standard in those subjects: Provided that nothing herein contained shall prevent a candidate passing the Preliminary Examination if he complies with the provisions of Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), and Ordinance No. 44 (General, No. 16.—Regulations for Degrees in Arts Supplementary to Ordinance No. 11).

(3) No candidate shall, except as hereinafter provided, obtain a bursary in Arts who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts a candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar: Provided also that this power shall lapse after the expiry of seven years from the date hereof unless it be renewed by ordinance.

XI. It shall be competent for the Senatus Academicus, with the approval of the University Court, from time to time to make regulations as to the conditions under which persons shall be eligible to compete for bursaries of the first year in the Faculties of Arts and

Science: Provided always that no student, who has during a winter or summer session attended any class qualifying for graduation in the said Faculties in any Scottish University, shall be eligible to compete for such bursaries.

XII. (1) In determining the marks to be assigned to the several subjects of the Bursary Competition Examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject.

(2) Candidates may select not more than five subjects for examination from the subjects of the Preliminary Examination in Arts, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senatus Academicus may from time to time prescribe.

XIII. The Senatus Academicus, in determining the results of the Bursary Competition Examination, may award bursaries in Arts of the first year in respect of exceptional distinction in any one branch of study: Provided that this power shall not be exercised with regard to more than two bursaries in any one year.

XIV. Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of Section VI. of Ordinance No. 46 (St. Andrews, No. 4.—Regulations for Degrees in Medicine), Ordinance No. 14 (Glasgow, No. 1.—Regulations for Degrees in Medicine), Ordinance No. 15 (Aberdeen, No. 1.—Regulations for Degrees in Medicine), or Ordinance No. 16 (Edinburgh, No. 1.—Regulations for Degrees in Medicine), and who have not attended any class qualifying for graduation in Medicine: Provided always that the last-mentioned condition shall not be held to exclude a candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

### Restricted and Preferential Bursaries.

XV. Candidates for bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts prescribed by Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), Section III., and no bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts not awarded by open competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar.

XVI. In the case of a bursary, scholarship, or fellowship in the gift of a patron, including bodies corporate and not corporate, becoming vacant by forfeiture or otherwise during the period of tenure, the Senatus Academicus shall forthwith give notice of the vacancy to the patron, who may, within such time as the Senatus shall fix, appoint a qualified student to fill the vacancy ; and if he fail to do so within such time, the Senatus Academicus may select a deserving student to fill the vacancy until the next Preliminary Examination at which bursaries are awarded, when the patron's right to present shall revive.

XVII. On the occurrence of a vacancy in any bursary in the gift of a patron, including bodies corporate and not corporate, at the expiry of the period of tenure, the Senatus Academicus shall give notice of such vacancy to the patron of the bursary and of the date fixed for the Preliminary Examination next ensuing at which bursaries are awarded ; and the patron may, if he think fit, submit to the Senatus the names of two or more candidates eligible for such bursary, who shall undergo an examination to be conducted by the Examiners for open bursaries in the University, and the result of the examination shall be communicated to the patron for his information, who shall thereafter present to the bursary.

XVIII. In the case of a bursary in the gift of a patron, including bodies corporate and not corporate, if no qualified person be presented before the date of the Preliminary Examination intimated in terms of the immediately preceding section, the bursary shall be open to unrestricted competition for that year ; and in the event of no qualified person being presented as before provided at the beginning of the next academical year, the Senatus may either throw open the bursary to unrestricted competition, or continue the same to the student to whom it had previously been awarded : Provided that this section shall not apply in cases where the patron shall previously satisfy the Senatus Academicus that proper arrangements have been made for the selection of a bursar.

### Miscellaneous.

XIX. In the case of bursaries designed for poor students, the Senatus Academicus shall satisfy itself that the circumstances of candidates are such as to entitle them to the benefit of the endowment, and for this purpose the Senatus may require that a declaration be made by a parent or guardian, or by the minister of religion or schoolmaster, of each candidate as the Court shall think fit.

XX. [Preferences and restrictions cancelled. These have been noted under each bursary concerned.]

XXI. Nothing herein contained shall apply to any bursary or endowment granted by any incorporation or society whose funds, capital or revenue, have been and are contributed and paid by the members of such incorporation or society by way of entry monies or other fixed or stated contributions.

XXII. The Senatus Academicus, with the approval of the University Court, shall prescribe the subjects of examination and the conditions of competition for bursaries, scholarships, or fellowships, in so far as the same are not prescribed by ordinance or by deed of foundation.

XXIII. The provisions of any Ordinance of the Commissioners under the Universities (Scotland) Act, 1858, in so far as inconsistent with the provisions of this ordinance, are hereby repealed.

XXIV. This ordinance shall come into force from and after the 1st day of January, 1895, or as soon thereafter as it may be approved by Her Majesty in Council: Provided that nothing herein contained shall extend to, or affect the interests of, any person holding a bursary, scholarship, or fellowship at the date of its coming into effect. [Issued on 30th July, 1894; approved on 11th May, 1895.]

### Bursaries for Women.

On 10th March, 1898, the University Court, in virtue of the power conferred by Ordinance No. 58, Section I., resolved to appropriate to competition, without restriction as to sex, all the open bursaries tenable in Arts, Science, or Medicine, which have taken effect prior to 30th August, 1864. To a number of other Bursaries either men or women may be appointed. In the following lists of Bursaries arranged according to Faculties, *italics* are used in printing the names of those Bursaries for which both men and women are eligible.

## A.—BURSARIES ARRANGED ACCORDING TO FACULTIES.

### BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Adam, John, | 3 | 4 | £17 |
| Black, | 2 | 3 | £36 |
| Boyd and Sanders, | 1 | 3 | £13 16/8 |
| Boyd and Wilson, | 1 | 3 | £24 6/8 |
| Brown or Ettles, | 2 | 3 | £25 |
| Dundonald, | 6 | 3 | £41 2/6 |
| Gilhagie and Struthers, | 1 | 3 | £19 12/8 |
| Hamilton, | 3 | 3 | £25 |
| Hastie, | 2 | 3 | £25 |
| Logan, | 1 | 3 | £17 |
| Lorimer, | 4 | 3 | £25 and £19 |
| Lumsden, | 1 | 4 | £15 |
| Macfarlane, James, | 1 | 3 | £23 |
| Marshall, | 1 | 4 | £15 |
| Morgan, | 8 | 1 | £20 |
| Muir, | 1 | 3 | £32 |
| Muir Divinity, | 2 | 2 | £25 |
| Notman, | 1 | 3 | £18 |
| Ross, John, jun., | 1 | 3 | £30 |
| King William's, | 2 | 3 | £20 |

### BURSARIES IN THE FACULTY OF LAW.

| | | | |
|---|---|---|---|
| Macfarlane, Robert, | — | — | — |
| Merchants' House, | 1 | 3 | £25 |
| Walkinshaw-Young, | 1 | 2 | £16 |
| Major Young's Fund, | 2 | 6 and 2 | £22 |

## BURSARIES IN THE FACULTY OF MEDICINE.

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Arthur,[1] | 1 | 3 | £20 |
| Brisbane, | 1 | 4 | £42 |
| *Buchanan Society*,[2] | 2 | 4 or 5 | £35 |
| Davidson, | 1 | 3 | £26 |
| *Gardiner*,[2] | 1 | 2 | £13 10/ |
| *Gibson, Dr. Thomas*,[2] | 1 | 4 | £32 |
| Glasgow Highland Society, | 7 | 4 | £25 |
| *Logan*,[2] | 1 | 4 | £17 |
| Lorimer, | 4 | 3 | £25 and £19 |
| Macarthur, | 1 | 2 | £20 |
| Macfarlane, John, | 1 | 3 | £40 |
| *Mackintosh*,[2] | 1 | 1 | £31 |
| Marshall, | 1 | 4 | £15 |
| Merchants' House, | 2 | 4 | £25 |
| Monteith, John, | 2 | 2 | £21 |
| Paterson, James A., | 8 | 4 | £35 and £25 |
| Rainy, | 2 | 2 | £20 |
| Walton, | 1 | 4 | £34 |
| Weir, Andrew, | 1 | 1 | £15 |

## BURSARIES IN THE FACULTY OF SCIENCE.

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| Agricultural College, | 6 | 3 | £50 and £40 |
| *Buchanan Society*,[2] | 1 | 4 | £30 |
| Cuthbertson, Donald, | 1 | 3 | £32 |
| Elder, | 2 | 2 | £50 |
| Kerr, Malcolm, | 2 | 3 | £20 |
| M'Ewen, Malcolm (Arts or Science), | 1 | 4 | £16 |
| Metcalfe, | 4 | 2 | £25 |
| Muir (Civil Engineering), | 2 | 1 | £12 10/ |
| Pender Memorial, | 1 | 1 | £50 |
| Shipwrights' Company, | 1 | 3 | £50 |
| Strang, | 4 | 3 | £20 |
| Young, George, | 1 | 1 | £35 |

## BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| Adam, James, | 2 | 4 | £11 |
| Adamson, | 1 | 3 or 4 | £20 |
| Barbour (Kilbarchan), | 1 | 3 | £20 |
| Biggart Memorial, | 10 | 4 | £25 |
| Black, | 2 | 4 | £18 |
| Blackquarry School, | 1 | 4 | £12 |
| Brand, | 3 | 4 | £24 |
| Brown, Ebenezer, | 1 | 3 | £40 |
| Browne (Ayrshire), | 2 | 4 | £22 |
| Brown-Paton, | 2 | 3 | £16 |
| Buchanan, | 2 | 3 | £13 |
| *Buchanan Society*,[2] | 3 | 3 | £20 |
| Clark, John (Mile-end), | 24 | 4 | £30 |

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[1] Open to women students only.

[2] Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Cowan, | 1 | 3 | £26 13/4 |
| Craig, | 1 | 4 | £25 |
| Craig, Archibald, | 1 | 2 | £9 |
| *Crawfurd and Brown*,[1] | 1 | 4 | £19 13/4 |
| Davidson, | 1 | 3 | £26 |
| Duncan's Bute, | 2 | 4 | £32 |
| Dundonald, | 8 | 4 | £40 |
| Ewing, James, | 4 | 4 | £20 |
| *Forfar*,[1] | 5 | 4 | £36 |
| *Forrester*,[1] | 1 | 3 | £24 |
| *Foundation*,[1] | 2 | 4 | £20 |
| *Franco-Scottish Society*,[1] | 4 | 1 | £30 |
| Fullarton of Overton, | 5 | 2 | £22 |
| *Gardiner*,[1] | 1 | 2 | £13 10/ |
| *Gartmore*,[1] | 1 | 3 | £21 |
| *General Council*,[1] | 4 | 3 or 2 | £20 |
| *Glasgow City Educational Endowm'ts*,[1] | 20 | 4 or 2 | £25 |
| Grant, George, | 1 | 3 or 4 | £38 |
| *Grant, George, jun.*,[1] | 1 | 4 | £38 |
| Hamilton, | 3 | 3 | £20 |
| Hamilton Educational Trust, | 3 | 3 | £15 |
| Hannay, | 3 | 3 | £15 |
| *Hastie*,[1] | 1 | 4 | £25 |
| Highland Society, Glasgow, | 12 | 4 | £20 |
| Howison and Gilchrist, | 1 | 4 | £17 |
| Hutchesons' Educational Trust, | 20 | 4 | £20 |
| Hyndford and Ross, | 1 | 4 | £10 16/8 |
| Jaffrey, John Ferguson, | 1 | 2 | £34 |
| Kerr, Malcolm (Nat. Phil.), | 1 | 3 | £20 |
| Laing, Alexander, | 1 | 3 | £20 |
| *Laing, James*,[1] | 8 | 4 | £25 |
| Leadbetter, | 1 | 4 | £9 |
| Leyden, John, | 1 | 3 | £13 |
| Lochhead, James, | 1 | 3 | £16 |
| Lochhead and Mitchell, | 2 | 4 | £33 |
| Lorimer (4 Phil. 4 Math.), | 8 | 3 | £25 and £19 |
| Lusk, | 1 | 3 | £30 |
| M'Crie, | 4 | 4 | £25 |
| M'Culloch, | 1 | 4 | £17 |
| MacDougall, | 3 | 3 | £33 |
| M'Ewen, Malcolm (Arts or Science), | 1 | 4 | £16 |
| MacGrouther, | 2 | 4 | £20 and £15 |
| M'Kissack, | 1 | 4 | £20 |
| *Maclean Trust* (Arts), | 4 | 4 | £25 |
| Maitland Club, | 1 | — | — |
| *Marshall Trust*,[1] | 20 | 5 | £30 |
| Menzies, | 4 | 4 | £45 |
| Merchants' House, | 1 | 4 | £25 |
| Monteith, | 3 | 3 | £14 |

[1] Both men and women are eligible.

## BURSARIES IN THE FACULTY OF ARTS—*Continued.*

| FOUNDATION. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Morgan, | 16 | 1 | £20 |
| Muir (Mathematics, Senior), | 1 | 1 | £18 |
| Muir (Mathematics, Junior), | 1 | 2 | £9 |
| Paterson, James, | 1 | 4 | £20 |
| Paterson, James A., | 7 | 3 | £35, £25, and £20 |
| Patrick, | 3 | 4 | £32 |
| Perthshire Society, | 1 | 3 | £25 |
| Pollock, | 3 | 3 | £40 |
| Ramsay-Walker, | 2 | 4 | £12 |
| Scott (Sir Walter), | 3 | 4 | £25 |
| Stevenson of Dalry, | 2 | 4 | £32 |
| *Stewart,*[1] | 3 | 4 | £15 |
| Thomson, James (Philosophical), | 1 | 2 | £9 |
| *King William's,*[1] | 2 | 3 | £15 |

## BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

| | | | |
|---|---|---|---|
| Ardkinglass, | 1 | 6 | £9 10/ |
| Buchanan (Bellfield), | 2 | 7 | £47 |
| Leighton, | 1 | 3 | £18 |
| Williams, | 4 | 3 or 4 | £40 |

## BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

| | | | |
|---|---|---|---|
| *Lamb,*[1] | 1 | — | £12 |

## BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

| | | | |
|---|---|---|---|
| Macdonald, | 2 | 4 | £15 |
| William Whyte, | 4 | 4 | £25 |

## BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

| | | | |
|---|---|---|---|
| *Armagh,*[1] | 3 | 3 | £45 |
| Bell, | — | — | £50 |
| Hutcheson, Thomas, | 1 | 4 | £11 2/2¾ |

## BURSARIES IN ANY FACULTY.

| | | | |
|---|---|---|---|
| Ayrshire Society, | 4 | 3 | £15 |
| Celtic Society (Campbell), | 1 | 1 or more | £5 |
| Denny, | 4 | 4 | £30 |
| *Dumfriesshire Society,*[1] | 2 | 4 | £15 |
| Ferguson, James, | 2 | 2 | £85 |
| Forrest, | 5 | 5 or less | £22 |
| Gibson, John, | 2 | 3 | £20 |
| Kintyre (Ker), | 1 | 3 | £20 |
| Kintyre (Alexander Love), | 1 | 4 | £11 |
| M'Kechnie, | 2 | 4 | £35 |
| *Pratt,*[1] | 2 | 4 | £20 |
| Shearer, | 3 | 3 | £30 |
| Smith, | 1 | 4 | £18 |
| Stillie, | 1 | 1 | £5 |
| *Taylor,*[1] | 2 | 4 | £7 |

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[1] Both men and women are eligible.

## B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—These bursaries were founded by the Rev. James Adam, Minister of Cumbrae, who died in 1830, and were originally three in number. In appointing to one of the bursaries, preference was given to the kindred of the founder, and in appointing to another to students of the name of Adam. By Ordinance No. 80 of the Universities Commission (1889) these restrictions were removed, and the three bursaries were combined into two of equal value. The bursaries are tenable for four years, but if a bursar graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to these bursaries. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae, the exercise of their patronage being regulated by Ordinance No. 57, Sections xv.—xviii. Value, about £11 per annum each.

*Bursars*—Arthur A. Cowan, 1900 ; Donald C. B. Gordon, 1901.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. The founder gave a preference to his own kindred and to students of the name of Adam or Dollar. By Ordinance No. 57 of the Universities Commission (1889) this preference was cancelled. They are open to competition to students in Theology of the first year ; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years, subject to the provisions of Ordinance 57, Section v. Value, £17 to each bursar.

*Bursars*—Hector MacLean, 1901 ; Neil M'Lellan, 1901 ; Walter Shaw, 1901.

ADAMSON BURSARY (*Arts*).—This Bursary was founded by the Rev. David Adamson, minister of Fintry, in 1674, for a student in Philosophy, and was restricted to sons of freemen in one of the seven Incorporate Trades of Stirling. This restriction was removed by Ordinance No. 57 of the Universities Commission (1889). The Bursary is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class ; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

*Bursar*—

AGRICULTURAL COLLEGE BURSARIES (*Science*).—The Governors of the West of Scotland Agricultural College have instituted a scheme of Bursaries, of the value of £50 and £40 respectively, each tenable for three years. They are awarded on the results of the Science Preliminary Examination held in Autumn. Bursars must attend the curriculum of classes in Glasgow, and comply with the conditions required to qualify for the degree of B.Sc. in Agriculture of the University of Glasgow, and must further present themselves at the examinations for the National Diploma in Agriculture. Further particulars may be ascertained by applying to Principal Wright, 6 Blythswood Square, who will receive applications up to 1st September. (Two vacancies.)

*Bursars*.—[1] Alexander Graham, 1899; Alexander B. Lamont, 1900; William R. Merry, 1900; John Struthers, M.A., 1901; Robert D. Watt, 1901.

ARDKINGLASS BURSARY (*Arts and Theology*).—This Bursary was founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader of Barndennoch, Glencairn, Dumfriesshire, had by his Will set aside for pious uses, and was tenable for eight years—five in Languages and Philosophy, and three in Divinity. It is now regulated by Ordinance No. 87 of the Universities Commission (1889). A bursar may hold the Ardkinglass Bursary for three years in the Faculty of Arts, and for three years in the Faculty of Divinity, and no longer; but a bursar, who at the end of the third year of his tenure has failed to pass all the examinations necessary for graduation in Arts, shall forfeit the Bursary, and in that event it shall be lawful for the patron to nominate a candidate, who shall be a Master of Arts, or shall have passed the examinations necessary for admitting him to that Degree, and shall be entering on his course of study in the Faculty of Divinity; failing such nomination by the patron, the Bursary shall be awarded by the Senate to a candidate qualified as aforesaid, under such conditions as the Senate shall prescribe, but a Bursar thus nominated shall not hold the Bursary for more than three years. In other respects the provisions of Ordinance No. 57 apply to the Ardkinglass Bursary. Patron, Mr. Geo. F. W. Callander of Ardkinglass and Craigforth. Value, £9 10s. (Vacant.)

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commission (1858) these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed.

Further regulations were laid down in Ordinance No. 92 of the

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[1] Vacant through lapse of time.

Universities Commission (1889). The Bursaries are open by competition to students who are presenting themselves for the final examination for the Degree of Master of Arts with Honours in the following rotation: (1) Classics, (2) Mental Philosophy, (3) Mathematics and Natural Philosophy. They are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. One Bursary (value about £45) will be open to competition in October, the subject of examination being Classics.

*Bursars*—[1] William Fulton (Classics), 1899; Peter G. Smith (Mental Philosophy), 1900; Dougald B. M'Quistan (Math. and Nat. Philosophy), 1901.

ARTHUR BURSARY OR SCHOLARSHIP (*Medicine*).—Founded in 1892 by Mrs. Arthur of Barshaw. This Bursary is at present of the annual value of £20. It is open to women students in the Medical School at Queen Margaret College. It is to be awarded by the Trustees to the student who shall take the highest place among the Queen Margaret College candidates at the First Professional Examination held in the University before the commencement of the winter session in which an appointment falls to be made, provided always that a candidate may take part of her examination in the March or April preceding. If two students are of equal merit, the Bursary will be divided between them, and if more than two are equal, a special examination may be held to determine who shall be the recipient. The Bursary is tenable for three years, subject to the condition that the Bursar prosecute her medical studies with the approval of the Trustees.

*Bursar or Scholar*—Elizabeth M. M'Vail, 1901.

GLASGOW AYRSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of bursaries in the University of Glasgow, and invested for that purpose. The bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. Alexander M'Lennan, 92 St. Vincent Street, Glasgow.

*Bursars*—[2] William R. Merry, 1900; [2] Robert T. Leiper, 1900; [2] George Young, 1900; John M. Woodburn, 1901.

[1] Vacant through lapse of time.

[2] Vacant in February, 1903.

BARBOUR KILBARCHAN BURSARY (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a scholarship for the Board School of Kilbarchan, Renfrewshire. The bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary Examination. (Vacant.)

BELL BURSARIES.—Mrs. Mary Allan Bell, of Nether Culzean, Maybole, who died on 7th February, 1899, at Glenae, Dumfries, in her Trust Disposition and Settlement of date 21st October, 1895, directed her Trustees, after the death of her husband, to apply the income of the residue of her estate in perpetuity in providing bursaries of £50 each for necessitous deserving students of Medicine, Law, or Theology in this University. Only those who have gone through the Arts curriculum are to be eligible, with a preference, *cæteris paribus*, first to the name Turnbull, and next to the name Macdowall. The Bursaries are to be awarded by competition, the examination being conducted both orally and in writing by two examiners appointed by the Trustees. Each Bursary is to be tenable for three or four years, as the Trustees may decide.

BIGGART MEMORIAL BURSARIES (*Arts*).—Founded in 1876 by Mr. Thomas Biggart of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Free Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The bursaries are tenable for four years, and the yearly value of each is £25. The Bursary Fund consisted of the sum of £6,000, and the deed of foundation provided that the surplus revenue, if any, may be applied to prolong the tenure of any of the bursars for a fifth year, or to the granting of additional bursaries on the same conditions as are applicable to the others.

Each bursary is payable by equal moieties on the second day of February and at the close of the winter session ; and the bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the United Free Assembly, to the effect of his being recognised by that Church as an accepted student, pursuing his studies with a view to the ministry therein. (Three Vacancies.)

*Bursars*—[1] Alexander Borland, 1898; John Whitelaw, 1899; John Baillie, 1900; George J. Jeffrey, 1900; John M. Hunter, 1901; William I. H. Marr, 1901.

Black Bursaries (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., Minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two bursaries in Arts, each of which is now of the annual value of £18. The bursaries are open to competition to students entering on their first session in the University; and the bursars are required to attend the qualifying courses for a degree in Arts.

*Bursars*—[1] William H. Andrew, 1898; James E. Scott, 1900.

Black Bursaries (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The bursaries are entrance bursaries, two in number, each of the annual value of £36, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any four subjects taken from at least two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

*Bursars*—[1] John Muir, M.A., 1899; Norman R. Mitchell, M.A., 1900.

Blackquarry School Bursary (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port-Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £12).

*Bursar*—John F. Tinto, 1901.

Boyd and Sanders Bursary (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years, each of the value of £5 10s. per annum. The appointment to one of these was vested in the Merchants' House of Glasgow; and the patrons of the other two were the members of the City Council. Preference to burgesses' sons, particularly of the name of Boyd.

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[1] Vacant through lapse of time.

The Bursary, value £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. The preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop, was cancelled by Ordinance No. 57 of the Universities Commission (1889). When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September. (Vacant.)

BOYD AND WILSON BURSARY (*Theology*).—By ordinance of the Universities Commissioners of date 17th May, 1862, the two Boyd Bursaries in the gift of the Magistrates and Town Council of Glasgow (see above) were conjoined into one, tenable for three years, the Bursar to be M.A. By an ordinance of the same date the two Bursaries, value £6 13s. 4d. per annum each, which were founded by Mr. Michael Wilson in 1640, and placed under the same patronage, were also conjoined into one, tenable for three years, the holder to be M.A. in regular attendance at the University as a student of Theology. Restrictions as to kindred, etc., were in both cases abolished.

This Boyd Bursary and this Wilson Bursary were, by Ordinance No. 78 of the Universities Commission (1889), conjoined into one Bursary, called the Boyd and Wilson Bursary, value £24 6s. 8d. per annum. The holder must be a Master of Arts of a Scottish University. The Bursary is tenable for three years, provided that the Bursar shall, during that period, give regular attendance as a student of Theology in Glasgow University. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

*Bursar*—[1] Kenneth O. Macleod, M.A., 1899.

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Free Church. Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are

[1] Vacant through lapse of time.

of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course.

*Bursars*—[1] William Y. Turner, 1898; Robert Inglis, 1901; Alexander R. Mackenzie, 1901.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the University present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

The preference formerly given to the kin of the founder was cancelled by Ordinance No. 57 of the Universities Commission (1889).

*Bursar*—Robert B. Carslaw, M.A., 1900.

BROWN BURSARY.—See Crawfurd and Brown, p. 262.

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *cæteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years.

*Bursars*—[1] George Condie, M.A., 1899; [1] John Gillies, 1899.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the bursary as they may see fit. The bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the whole Preliminary Examination. It is tenable for three years. Present value, £40 per annum.

*Bursar*—Thomas M. M'Robert, 1901.

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[1] Vacant through lapse of time.

Browne (Ayrshire) Bursaries (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £22, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

*Bursars*—[1] John MacInnes, 1899; Archibald H. Dunlop, 1900.

Brown-Paton Bursaries (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire, the bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each bursar receives one half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder.

*Bursars*—James M. Frew, 1900; William D. Macgill, 1901.

Buchanan Bursaries (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar.

*Bursars*—[2] George Wright, 1899; Neil Conley, 1901.

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[1] Vacant through resignation of Bursar.

[2] Vacant through lapse of time.

Buchanan (Bellfield) Bursaries (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £47 per annum to each Bursar.

*Bursars*—Brodie S. Gilfillan, 1896; James G. MacDonald, 1897.

Buchanan Society Bursaries (*Arts or Science or Medicine*).—The Buchanan Society, which was founded in 1725, has instituted for young men and women of the names of Buchanan, M'Millan, M'Auslan, M'Wattie, and Risk, who have not previously attended any University, and who are not over twenty-one years of age, a number of Bursaries in Arts or Science or Medicine. The Bursaries in Arts are each of the annual value of £20, and tenable for three years at any Scottish University. The Bursaries in Science are each of the annual value of £30, and tenable for four years at any Scottish University, or at any of the Technical Colleges of Glasgow, Edinburgh, Dundee, or Aberdeen, approved of by the Society. Holders are required to go up for the Degree of B.Sc. at the University during their tenure of the Bursaries in Science. The Bursaries in Medicine are each of the annual value of £35, and tenable for four years, but may be extended to a fifth year. Holders are required to attend the classes which qualify for graduation with a view to taking a medical Degree at any Scottish University. All the Bursaries are awarded by competition, the subjects of examination being English and any three selected by the candidate out of the following, viz., Latin, Greek, French, German, Mathematics, Science. Candidates for Bursaries in Science must also shew proficiency in Freehand Drawing. When vacancies occur applications should be lodged not later than 15th August with the Secretary, Mr. P. G. Keyden, 186 West George Street, Glasgow, from whom further information may be obtained. (No vacancies in 1902-3.)

*Bursars*—Angus Buchanan (Medical), 1898; John Macmillan (Medical, 5 years), 1900; Robert A. C. Macmillan (Arts, 3 years), 1900; James R. Buchanan (Arts, 3 years), 1900; Murdo Buchanan (Arts, 3 years), 1900; Andrew Buchanan (Science), 1901.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty.*)—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *cæteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. T. A. H. Anderson, 170 Hope Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Anderson.

*Bursars*—James Maclean, 1899; Peter J. M'Iver, 1901.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*)—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *cæteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. On 29th October, 1897, the Trustees resolved that it should not be competent for any one appointed after that date to a John Clark (Mile-End) Bursary to hold any other Bursary or Scholarship concurrently with it, except with the consent of the Trustees. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £35,000. Six Bursaries on this foundation will be competed for in October, 1901.

*Bursars*—[1]John Bain, 1898; [1]William H. Coats, 1898; [1]Daniel Gillies, 1898; [1]James Cosh, 1898; [1]Robert W. Barr, 1898; [1]James Hunter, 1898; Robert Burns, 1899; James M. Devine, 1899; John M'Phee, 1899; Kenneth Stewart, 1899; John S. Clark, 1899; John I. Greig, 1899; Robert N. Cross, 1900; William B. Donald, 1900; Thomas Duncan, 1900; Andrew Hutchison, 1900; Elias H. Jones, 1900; Thomas D. K. Murray, 1900; Albert F. L. Brayne, 1901; John R. Brown, 1901; Robert Browning, 1901; James K. Dunlop, 1901; Gilbert W. Elliott, 1901; Hugh Smith, 1901.

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[1] Vacant through lapse of time.

Cowan Bursaries (Ayr Academy) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq., of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the "Ayr Educational Trust." Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination, and only those are eligible for appointment who pass the Preliminary Examination occurring first after the termination of their Academy course ; unless it can be shown to the satisfaction of the Governors that any student was unavoidably prevented by illness or other necessary cause from appearing at the Examination first occurring, in which case the Governors reserve to themselves the power to allow such students, should they so decide, to compete at the next following examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. No student who has gained a Cowan Bursary shall hold along with it any other Bursary or Scholarship which either singly or in combination exceeds the amount of £10 per annum, without the consent of the Governors. On a vacancy, intending candidates must send in their names and addresses to the secretary, Mr. J. G. M'Skimming, 7 Wellington Square, Ayr, before the first day of September ; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University. (No vacancy.)

*Bursar*—William K. White, 1901.

Craig Bursary (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. The preference to kindred of Founder, and students of the name of Craig, was cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September of the year in which a vacancy occurs.

*Bursar*—[1] Oliver Dryer, 1898.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, amounted in 1884 to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are —the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes ; is awarded by the Senate in accordance with the result of that examination ; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFURD AND BROWN BURSARY (*Arts*).—The Crawfurd or Bishop's Bursary was founded by Captain Thomas Crawfurd of Jordanhill in 1576, and was appropriated to a student in Languages. It was tenable for four years, the value being a chalder of meal. The Patrons were the Principal and the Professors of the University. The foundation was remodelled by ordinance of the Universities Commission, dated 7th June, 1862. The Brown Bursary was founded in 1697 by Colonel Brown of Maryland. It was tenable for four years. The annual value was £5, increased in 1880 to £6 13s. 4d. by an addition from the Students' Bursary Fund. This Bursary, being also in the patronage of the Principal and Professors, was combined with the Crawfurd Bursary by Ordinance No. 81 of the Universities Commission (1889), the joint-bursary to be called the Crawfurd and Brown Bursary. The preference as to kindred attaching to the Brown Bursary was abolished. The Crawfurd and Brown Bursary is tenable for four years, the annual value being £19 13s. 4d. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure, if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary.

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[1] Vacant through lapse of time.

*Bursar*—Theodore D. Dunn, 1900.

DONALD CUTHBERTSON BURSARY (*Science*).—Founded in 1900 by Sir John Neilson Cuthbertson, LL.D., and Thomas William Cuthbertson, M.A., Trustees of Donald Cuthbertson, LL.B., Accountant in Glasgow, who died on 8th December, 1864. The Bursary Fund amounts to £1,000, being the accumulated revenue and principal of £500 out of the residue of the Testator's estate. The Deed of Foundation provides that the right of nominating the bursar, of determining what classes in the University he shall attend, and of fixing the period of tenure, shall belong to the Trustees. Their subsisting resolution is that the Bursary shall be awarded to a student entering on his course with a view to graduate in Pure Science, account being taken of the proficiency he has shown in passing the Science Preliminary Examination, that it shall be tenable for three years, and that the Bursar shall during that period attend Science classes in the University. The Trustees reserve to themselves power to alter this resolution at any future time, and should they ultimately resign the management of the Trust into the hands of the University Court, then the Bursary shall be administered under the regulations fixed and adopted at the time by the Trustees. The present annual value is £32.

*Bursar*—[1]Alfred Walter Stewart, 1900.

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson, who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *cæteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Burse is not payable until the bursar shall have passed the examinations in four subjects taken out of at least two Departments for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The present annual value of each is £26.

*Bursar in Arts*—Norman R. Logan, 1900.

*Bursar in Medicine*—James H. Baird, B.A., 1901.

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[1] Vacant—Bursar's course finished.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by the late Peter Denny, LL.D., engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny and Mr. Leslie Denny, nominated in 1896 by the Sheriff of Dumbartonshire, the Principal and Professors, and one of the four Assessors of the General Council in the University Court appointed by the four Assessors, or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889).

*Bursars*—[1] James M'Nabb, 1898; James C. Moir, 1899; Henry J. Milligan, 1900; Alexander Laurance, 1901.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 27, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 58 West Regent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

*Bursars*—[1] Margaret L. Duncan, 1898; Wilfred G. M'Lean (£10), 1900; George W. M'Allister, (£10), 1900.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *cæteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present annual value, £32 to each Bursar. On 28th October, 1897, the Patrons made a by-law declaring that it should not be competent for any one appointed after that date to a Duncan's Bute Bursary to hold any other Bursary or Scholarship concurrently with it.

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[1] Vacant through lapse of time.

*Bursars*—Renwick Leitch, 1901 ; Campbell L. Miller, 1901.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity.

In 1858 the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

The Bursaries were further regulated by Ordinance No. 94 of the Universities Commission (1889). The Bursaries in Arts are tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure, if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are tenable for three years, and no longer. A student cannot be appointed to a Dundonald Bursary in Divinity unless he has passed all the examinations required for graduation in Arts. In other respects the provisions of Ordinance No. 57 apply to all the Bursaries on this Foundation. The Bursars in Arts receive £40 each per annum, and those in Divinity £41 2s. 6d. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, George Dalziel, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September. Two appointments in Arts and two in Divinity will be made for next session.

*Bursars in Philosophy*—[1] Frank W. Saunders, 1898 ; [1] Alexander C. Wilson, 1898 ; Charles G. Sim, 1899; William R. Merry, 1899 ;

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[1] Vacant through lapse of time.

Donald Macphie, 1900 ; John W. Scott, 1900 ; Robert Jack, 1901 ; James A. Stephen, 1901.

*Bursars in Divinity*—[1] David L. Blair, M.A., 1899 ; [1] Robert S. Masterton, M.A., 1899 ; William M. Tait, M.A., 1900 ; John M. Pryde, M.A., 1900 ; William Lindsay, M.A., 1901 ; George Muir, M.A., 1901.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section :—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the examination in May.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance :—(1) Natural Philosophy ; (2) Chemistry (lectures); (3) Mathematics ; (4) Naval Architecture and Marine Engineering. During the second year of attendance : (1) Mathematics ; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879 by the Merchants' House of Glasgow in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session ; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September, in each year.

*Bursars*—[1] John Martin, 1898 ; [2] Norman A. Black, 1899 ; John C. Middleton, 1900 ; [3] Campbell Stephen, 1901.

[1] Vacant through lapse of time. [2] Vacant through resignation.

[3] Appointment subject to the rule contained in Ordinance No. 57, Section XV.

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz. :—In November, 1878, and thereafter triennially, in Mental Philosophy, together with English Literature; in November, 1879, and thereafter triennially, in Mathematics and Natural Philosophy; in November, 1880, and thereafter triennially, in Classical Literature. The Examination is the same as that for honours in the Groups of Classics, Mental Philosophy, and Mathematics and Natural Philosophy respectively (with the addition in the case of the Group of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in October. Candidates must have completed the course of attendance required for admission to examination in the corresponding Group for the Degree of M.A. with Honours. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz. :—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *cæteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1902 will be examined in Mental Philosophy along with the examinations on these subjects for the Degree of M.A. with Honours. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 17th September.

*Bursar*—[1] William Sutherland (Mathematics and Natural Philosophy) (1900) 1901 ; James Moyes (Classics), 1901.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737. The foundation was remodelled by the Universities Commission (1858), by Ordinance of 31st May, 1862, and further regulated by Ordinance No. 79 of the Universities Commission (1889) of date 15th February, 1895. There are now five Forfar Bursaries in the gift of the Senate: the holder of each to receive £36, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance at the University. They are tenable for four years, subject to the condition that the bursar shall proceed through the curriculum in Arts, and shall pass the examinations for the Degree of M.A. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to the Forfar Bursaries.

*Bursars*—[1] Thomas Barbour, 1898 ; William S. B. Wilson, 1899 ; Robert Harvie, 1900 ; Dugald F. Percy, 1900 ; Thomas D. K. Murray, 1901.

FORREST BURSARIES (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowside, by Deed of Mortification of date 6th March, 1858. The Trust was reconstituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary, Mr. G. B. Motherwell, Town Clerk, Airdrie.

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[1] Vacant through lapse of time.

*Bursars*—William Allan, 1899; David G. Masterton, 1899; Joseph Cupples, 1900; Harry A. Kellow, 1900; William Lang, 1901.

Forrester Bursary (*Arts*).—Founded in 1901 by the Trustees of the late James Forrester, merchant in Airdrie, in accordance with the instructions contained in his Trust Disposition and Settlement. The Trustees are the patrons. The Bursary, which is of the annual value of £22 to £25, and tenable for three years, is open to competitors of either sex, born in the parish of Dunblane or Lecropt, and requiring assistance to enter the University. It will be awarded after public examination of the candidates at the Bursary Competition in connection with the Faculty of Arts in the University of Glasgow. It shall not be held by any Bursar along with any other Bursary or Scholarship whatsoever. If two candidates are found to be equal in merit, the Trustees may divide the Bursary between them. When no candidate of sufficient merit makes application, the Bursary will lapse until the following year. Whenever the Bursary remains vacant for a year or years, the income accumulated will go to increase the Benefit of the first successful applicant, the accumulated interest being spread over the three years of tenure. When a vacancy occurs, applications should be lodged with Mr. Alexander B. Barty, Writer, Dunblane, on or before 1st September. (Vacant).

Foundation Bursaries (*Arts*).—These Bursaries were founded by James VI., in 1577, for students in Languages and Philosophy, and were originally four in number. By ordinance of the Universities Commission (1858) of date 7th June, 1862, these Bursaries were remodelled, and were further regulated by Ordinance No. 84 of the Universities Commission (1889) of date 15th February, 1895. Under the new scheme there are two Foundation Bursaries, the holder of each to receive £20 per annum. They are open for competition to all students entering the first or second session of attendance at the University, and are tenable for four years. The class attendance of the Foundation bursars is regulated by Ordinance No. 57, Sec. iii. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science.

*Bursars*—Annie M. MacGregor, 1900; Alexander Hutchison, 1901.

Franco-Scottish Society's Travelling Bursaries (*Arts*).—The Society offers four Travelling Bursaries of £30 each for competition among Scottish students. The examination will be held simultaneously in the four Scottish Universities on Monday, 13th April, 1903, from

10 to 2 o'clock. Candidates must send their names, addresses, and certificates of attendance in at least one of the University French Classes, during one or both of the sessions 1901-2 and 1902-3 to A. A. Gordon, Esq., C.A., 128a George Street, Edinburgh, between 25th March and 6th April 1903. Candidates from the Training Colleges, if specially recommended by the respective Rectors, will also be admitted to the examination, although they have not attended University Classes. The Bursars are required to study French in France for at least three months, to the satisfaction of the Society.

The competition is open to those candidates only who hold no other Scholarship, Bursary, or Grant for the purpose of enabling them to study French.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortification and Constitution dated 22nd December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The present annual value to each bursar is £22. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age.

*Bursars*—[1] Robert Dewar, 1900; [1] Robert D. Watt, 1900; James Barclay, 1901; William D. Borland, 1901; John B. Orr, 1901.

WILLIAM GARDINER BURSARIES (*Arts*, *Medicine*.) — William Gardiner, M.D., of Ashton-under-Lyne, by his Settlement, dated 27th September, 1897, directed his Trustees to pay over to the University Court the sum of £1000, free of legacy duty, for the purpose of founding one or more Scholarships, Bursarships, or Exhibitions, to be devoted to such objects and in such manner as the Court should think fit, preference being given to students of Chemistry, Physiology, and Physics, French and German, and, so far as practicable, to sons of medical men, lawyers, and teachers.

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[1] Vacant through lapse of time.

The following regulations were approved by the University Court on 4th October, 1900:—

1. The Bursaries shall be two in number, equal in value, and each tenable for two years.

2. One Bursary shall belong to the Faculty of Medicine, and shall be awarded after the Autumn Professional Examinations in Medicine to the candidate who in the year in which the bursary is open has passed in Physiology of the second professional examination, and whose aggregate of marks in that subject and in Chemistry and Physics of the first professional examination, is the highest.

3. The other Bursary shall belong to the Faculty of Arts, and shall be awarded to the student who obtains the highest marks in French and German as subjects of the General Bursary examination in the year in which the Bursary is open, provided that it shall be in the power of the Senate to award the bursary for decided proficiency shown by a candidate in one of the said languages. The holder of this bursary must attend the French class or the German class in the University, and pass the examination in one or other of these subjects required for graduation in Arts. The second moiety of the second year's Burse shall not be paid until the Bursar shall have passed this examination.

4. Either of the William Gardiner Bursaries may be held along with any other Bursary in the University, if the regulations of that other Bursary permit.

5. The Bursaries shall be open to both men and women, effect being given, *cæteris paribus*, to the preference expressed in the Will of Dr. Gardiner for sons of medical men, lawyers, and teachers.

The present annual value of each is £13 10s.

*Bursars*—Walter Hubbard (Arts), 1901 ; Peter L. Sutherland (Medicine), 1901.

GARTMORE BURSARY (*Arts*).—In accordance with the directions of the Founder of the Gartmore Medal (see p. 346), the Universities Commission (1889), by Ordinance No. 98, founded this Bursary, a sufficient capital having accumulated from the surpluses of the Foundation. It is open by competition to all students entering on their first year of attendance on a course for graduation in Arts, and is tenable for three years. Value, £21 per annum. In other respects the provisions of Ordinance No. 57 apply to the Gartmore Bursary.

*Bursar*—Andrew C. Baird, 1900.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by the late Mr. David Hannay, Clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,382 2s. (Fund No. II.) was raised to form the nucleus of a permanent General Council Bursaries Fund, and invested in the names of Trustees. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, the income of this sum was appropriated to two General Council Park Bursaries of £20 a-year, open to students of either sex who, having passed the Preliminary Examination in Arts, are about to commence their second year of actual attendance at the University. The General Council Park Bursaries are tenable for two years. The remainder of the free income of the fund is devoted to providing bursaries, called the General Council Bursaries, of such number and of such amount as may from time to time be determined by the Trustees. The General Council Bursaries are open to students of either sex on their first entering the University, and are tenable for three years. No candidate shall obtain a General Council Bursary who shall not have passed the Preliminary Examination in Arts, but it is in the power of the Trustees to admit to a General Council Bursary, a candidate who has passed in at least three subjects of the Preliminary Examination on condition that the bursary shall not be retained unless the bursar passes in all the subjects not later than the second Preliminary Examination held after the time of admission.

*Bursars*—[1] John Kaye, 1899; David M'Millan, 1900; [1] Marion Y. Reid, 1900 (Park); Helen Muir, 1901; Mary V. Hunter, 1901 (Park).

JOHN GIBSON BURSARIES (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the third year of his course, and that it be retainable for three years. When a vacancy occurs applications are to be made in September to Messrs. A. J. & A. Graham, 198 West George Street, Glasgow, who will furnish forms of application. (No vacancy.)

*Bursars*—Robert T. Leiper, 1900; George M. Gray, 1901.

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[1] Vacant through lapse of time.

DR. THOMAS GIBSON (ROTHESAY) BURSARY (*Medicine*).—Founded in 1893 in terms of the Trust Disposition and Settlement of Misses Christian and Janet Gibson, who bequeathed £1,000, free of legacy duty for that purpose, in memory of their brother. Present annual value, £32. The Bursary is tenable for four years, and is open to any matriculated student of Medicine (male or female) in the University preparing for service as a Medical missionary in connection with the Church of Scotland, who has completed the first professional examination in the year in which the Bursary is open. The Bursary is awarded to the qualified applicant who has obtained the best marks in the said examination; but in the case of an equality of marks between two or more candidates, the Senate may hold a further examination to determine to which of such candidates the Bursary shall be awarded. In the case of a casual vacancy, the Senate may appoint for the remainder of the period of tenure any qualified applicant who has shown diligence and proficiency in the earlier part of the curriculum in Medicine. In the event of the Bursary not being awarded in any year or years from lack of qualified candidates, the Senate may, in any subsequent year, if the funds of the Foundation admit, award an additional Bursary for one or more years, not exceeding four. There is a preference, *cæteris paribus*, to students of the name of Gibson.

*Bursar*—Robert Macfarlane, 1900.

GILCHRIST BURSARY.—See Howison and Gilchrist, p. 278.

GILHAGIE AND STRUTHERS BURSARY (*Theology*).—The Gilhagie Bursary was founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. It was tenable for four years, the annual value being £6 6s. In 1624 the Rev. William Struthers founded two Bursaries, each of the annual value of £6 13s. 4d., for students of Divinity. By Ordinance of the Universities Commission (1858) the two Struthers Bursaries were conjoined into one, tenable for three years, the holder to be M.A., and a student of Divinity. All other restrictions were abolished. By Ordinance No. 82 the Universities Commission (1889) combined the Gilhagie Bursary and the Struthers Bursary into one, called the Gilhagie and Struthers Bursary. The patrons of the joint-bursary are the Magistrates, Town Council, and Ministers of Glasgow, who may present any person without preference as to name, provided that he be a Master of Arts of a Scottish University. The Bursary is tenable for three years, and no longer, subject to the condition that the bursar shall during that period give regular attendance as a student of Theology in the University of Glasgow. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

*Bursar*—Augustine W. S. Forbes, M.A., 1901.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts, etc.*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the King's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every King's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1902 five King's Scholars and two other Bursars will be appointed.

*Bursars*—[1] Neil MacInnes, 1898; [1] Alexander Moffatt, 1898; William Ferguson, 1899; George P. Granger, 1899; Jacob Levine, 1899; William Miller, 1900; Andrew W. Rogerson, 1900; John M. Miller, 1901; Elsie F. Macdonald, 1901; William M. Fulton, 1901.

*King's Scholars*—[1] John Anderson, 1900; [1] John Docherty, 1900; [1] Annie I. Galbraith, 1900; [1] James Hunter, 1900; [1] Archibald Lang, 1900; Samuel N. Forrest, 1901; Duncan D. Hair, 1901; Peter Marshall, 1901; Charles G. Nelson, 1901; Edward B. Rattray, 1901.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-End, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has passed all the examinations necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

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[1] Vacant through lapse of time.

*Bursar*—

George Grant, Junior, Bursary (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-End, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disponed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserved to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. Any accumulations through vacancies or otherwise are to be added to the capital sum.

*Bursar*—George R. Jeffrey, 1898.

Hamilton Bursaries (*Three in Arts, and Three in Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. They were regulated by Act of Parliament, 1758, and further regulated by Ordinance No. 96 of the Universities Commission (1889). There are three Hamilton Bursaries in the Faculty of Arts, and three in the Faculty of Divinity, and each of them is tenable for three years, and no longer. The bursars in the Faculty of Arts shall attend such classes qualifying for graduation in Arts, and in such order as may be approved by the Senate. In other respects the provisions of Ordinance No. 57 apply to the

Bursaries on this Foundation. The bursars in Arts receive £20, those in Divinity £25 per annum each, should the state of the funds permit. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, George Dalziel, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September.

*Bursars in Arts*—[1] Alexander Chisholm, 1899; Neil Leitch, 1900; Robert Dewar, 1901.

*Bursars in Theology*—[1] William Macphail, 1899; Alexander Williamson, 1900; William W. Clark, 1901.

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of September. There will probably be a vacancy to which an appointment may be made in November, 1902.

*Bursars*—Robert N. Cross, 1901.

HANNAY BURSARIES (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the

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[1] Vacant through lapse of time.

Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st September.

*Bursars*—[1] John A. Fleming, 1899 ; Robert A. C. Macmillan, 1900.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—The Rev. Mr. Hastie, by Deed of Mortification dated 5th September, 1707, founded a Bursary for a student in this University, which was first awarded in 1718. By an addition afterwards made to the foundation, the number of Bursaries was increased to three, two in Divinity and one in Philosophy.

The Universities Commission (1858), in an Ordinance of date 31st May, 1862, made regulations for these Bursaries, and further regulations have been made by the Commissioners (1889) in Ordinance No. 90. There are now three Bursaries on this Foundation, each £25 in value—one in Arts and two in Theology. The Bursary in Arts is open by competition to all students entering on their first session of attendance in the Faculty of Arts, and is tenable for four years, but if a student graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first session of attendance in the Faculty of Divinity. They are tenable for three years, and no longer. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to all the Hastie Bursaries.

*Bursar in Arts*—[1] Margaret T. Robertson (1898), 1901.

*Bursars in Theology*—William A. Gillies, M.A., 1900 ; Thomas Low, M.A., 1901.

GLASGOW HIGHLAND SOCIETY'S BURSARIES (*Ten in Arts and Eleven in Medicine*).—In 1892 the Managers of the Glasgow Highland Society framed a scheme of Scholarships and Bursaries for students of Highland descent. The scheme includes Scholarships tenable at Secondary or Technical Schools, and Bursaries tenable at the Glasgow and West of Scotland Technical College and at the University. The University Bursaries in Arts are ten in number, each of the annual value of £20, and tenable for four years in the Faculty of Arts, but the continuance of a Bursary in the second and subsequent years is dependent on the character of the certificates obtained by a Bursar in his classes in the previous year. They are awarded by competition among students of the first year. The Bursaries in Medicine, each of the annual value of £25, are tenable for five years in the University, or any other College approved by the managers. Candidates must pass the preliminary examination of the College at which they desire to attend, and the managers reserve to themselves the right to appoint the most suitable. In 1902 there will probably be two Bursaries in Arts and two in Medicine open to competition. Secretary, R. Hope Robertson, Esq., 58 St. Vincent Street.

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[1] Vacant through lapse of time.

*Bursars in Arts*—[1] Archibald Young, 1898; [1] Peter Mitchell, 1898; George Campbell, 1899; Hugh C. M'Coll, 1899; Peter C. M'Arthur, 1900; Alexander Murray, 1900; George W. Walker, 1900; Alexander Beaton (extra), 1900; James C. M'Gregor, 1901; Alexander D. Ross, 1901; Roderick Morrison, 1901.

*Bursars in Medicine*—[1] Ivy M'Kenzie, M.A., 1897; [1] William F. Kay, 1897; Malcolm Hutton, 1898; William Stewart, 1898; Andrew M. Pollock, 1899; George D. M. Beaton, 1900; Murdo D. M'Kenzie, 1900; William Davidson, 1901; John H. Bisset, 1901; Murdo M. MacRae, 1901; Neil A. M. Johnson, 1901.

HILL BURSARIES (*Arts*).—Two Bursaries of the annual value of not less than £10, nor more than £25 (present value £15). These Bursaries tenable for three years shall be awarded on the results of the Bursary Competition of the University of Glasgow, and shall be open to pupils attending the secondary departments of public or State-aided schools in the district of the School Board of the Parish of Govan, who shall be approved by the Governors of Hill's Trust, and whose parents are in such circumstances as to require aid in giving their children higher education. Secretary, John A. Craigie, Esq., 151 Bath Street, to whom in case of a vacancy application should be made before 1st September.

*Bursars*—Flora Ritchie, 1901; Janet J. Macphail, 1901.

HOWISON AND GILCHRIST BURSARY (*Arts*).—In 1613 the Rev. John Howison, Minister of Cambuslang, founded a Bursary for a qualified scholar of honest name and good report, son of a craftsman of Glasgow. Failing the son of a craftsman of Glasgow, any other qualified scholar might be selected by the Patrons. Mr. John Gilchrist, tailor in Glasgow, founded in 1700 a Bursary in Philosophy for a student, being the son of a tradesman freeman in the burgh of Glasgow, with a preference to the names Gilchrist, Bryce, and Boyd.

By Ordinance No. 89 the Universities Commission (1889) combined these two Bursaries into one, called the Howison and Gilchrist Bursary. The Patrons are the Trades' House of Glasgow, and any person may be presented without restriction as to birth or preference as to name. The Bursary is tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. Value £17 per annum.

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[1] Vacant through lapse of time.

*Bursar*—John F. Steven, 1900.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be competed for by boys who have attended Hutchesons' Grammar School for at least two years immediately preceding the competition, and completed the curriculum in the Secondary Department. Forms of application may be had from the Secretary of the Trust—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of September in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1902 five Bursars will be appointed.

*Bursars*—[1] Gavin Muir, 1898; Ebenezer Macmillan, 1899; Macdonald Munro, 1899; Alexander S. M. Macgregor, 1899; Tom D. M'Ewan, 1899; Alexander Ballantyne, 1899; Archd. Y. Hutchison, 1899; James Fairley, 1900; Dugald M'Callum, 1900; John N. M. Paterson, 1900; Thomas T. Rankin, 1900; William R. Cammock, 1901; Aaron Cantor, 1901; William J. Falside, 1901; William T. Heughan, 1901; James R. Mitchell, 1901.

THOMAS HUTCHESON BURSARY (*Theology, Law, or Medicine*).—This Bursary, formerly known as the Old Library Bursary, was founded by Mr. Thomas Hutcheson of Lambhill in 1641. Preference was given to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow. Ordinance No. 83 of the Universities Commission (1889) prescribes that the Bursary shall be called the Thomas Hutcheson Bursary, and that it shall be lawful for the Patrons to appoint to it, without preference as to name or birth, any Master of Arts who is entering on his course of study in any one of the Faculties of Divinity, Law, or Medicine. The Bursary is tenable for four years, but if a bursar in Divinity graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Value £11 2s. 2¾d. per annum. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

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[1] Vacant through lapse of time.

*Bursar*—Theodore D. Lowe, 1900.

HYNDFORD AND ROSS BURSARY (*Arts*).—In 1617 Mr. Michael Wilson founded a Bursary, called the Hyndford Bursary, for a student in Philosophy. The right of presentation belonged to the representative of Sir James Carmichael, viz., Sir W. C. Anstruther, Bart. In 1659 Captain William Ross of Rosseyle founded the Ross Bursary for a student in Languages and Philosophy. The appointment was vested in the Earl of Glasgow. By Ordinance No. 95 of the Universities Commission (1889), these two Bursaries were combined into one, to be called the Hyndford and Ross Bursary. It is tenable for four years, but if the bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The patronage of the Bursary is vested in Sir W. C. Anstruther, Bart., and his heirs, and the Earl of Glasgow and his heirs, who exercise their right of presentation by turns. The appointment in 1901 belongs to the former. In other respects the provisions of Ordinance No. 57 apply to the Bursary. Value £10 16s. 8d. (Vacant.)

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, and shall be awarded to a student on entering the third session of his attendance, *i.e.* a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who proposes to attend in the following sessions the classes of Logic, Moral Philosophy, and English Literature. Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes of Logic, Moral Philosophy, and English Literature, and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral

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[1] Vacant through lapse of time.

Philosophy, and shall pass the examinations in Logic, Moral Philosophy, and English Literature for graduation in Arts. The subjects of examination are—1. *Logic*: (*a*) Descartes, *Meditations*, (Veitch's translation); (*b*) Ferrier, *Lectures on Greek Philosophy*, the pre-Socratic period; 2. *English Literature*: (*a*) Shakespeare, *As You Like It*; (*b*) Tennyson, *Idylls of the King*. Candidates are not expected to deal with questions of textual criticism on either of the works in English Literature.

*Bursar*—John Hutcheson, 1901.

MALCOLM KERR BURSARIES (*Science, etc.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for that subject in the examination for the ordinary degree of M.A., and in Chemistry, the same as those for the Final Science Examination for B.Sc. Present value, £20 to each Bursar. (Bursary in Chemistry vacant.)

*Bursar in Natural Philosophy*—James Hunter, 1901.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applicants must be connected with Kintyre, and be entering the University for the first time. When a vacancy occurs application should be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 10th June.

*Bursar*—Walter M. MacCulloch, 1901.

THE KINTYRE (ALEXANDER LOVE) BURSARY (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. When a vacancy occurs application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 31st May.

*Bursar*—Kenneth Stewart, 1899.

LAING BURSARY OR BURSARIES (*Arts*).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *cæteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

*Bursar*—[1] James A. Neilson, 1899.

JAMES LAING BURSARIES (*Arts*).—Founded in 1892, under the Trust Disposition and Settlement of Mr. James Laing, Writer, Denny. So far as the funds admit, the Trustee appoints annually to two Bursaries, each of the annual value of £25, and tenable for four years. They are open to candidates (male and female) who have been educated for at least three years in any school or schools in the County (including the Burgh) of Stirling, and who are entering upon their first or second year of study in the University of Glasgow. Applications with certificates of qualification and good conduct from the teacher or teachers under whom candidates have been educated, should be lodged with Mr. William Jenkins, Writer, Denny, not later than 1st September. The names of candidates who are found qualified will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries. Failing candidates qualified as above, the Bursaries are open to competition to students of the first or second year from any part of Scotland. (Two vacancies.)

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[1] Vacant through lapse of time.

*Bursars*—[1] John G. Gibson, 1898; [1] James Bain, 1898; Peter Marshall, 1899; David K. Chalmers, 1899; James Burns, 1900; John B. Stephen, 1900; Mary C. Biggar, 1901; Thomas Baxter, 1901.

LAMB BURSARY (*Arts or Theology*).—Founded in 1863 by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael. The preference to applicants in the parish of Carmichael or Pettinain, and the restriction to applicants from the Presbytery of Lanark, were cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, about £12 per annum.

*Bursar*—Andrew Donald, 1901.

LEADBETTER BURSARY (*Arts*).—This Bursary was founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It was made tenable for four years, and the classes to be attended by the Bursar in each of the four years were prescribed. A preference was given to boys who had attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates. Ordinance No. 88 of the Universities Commission (1889) empowers the Patrons to present to the Bursary any person who has completed the five years' Classical course of the High School of Glasgow, whom failing, any person, without restriction as to parentage, who has received a similar classical education elsewhere. The Bursar must attend the Latin and Greek classes in the University during at least one year, and thereafter continue a course of study in the University necessary for the Degree of Master of Arts. The Bursary is tenable for four years, but if the holder graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

*Bursar*—[1] Francis Middlemiss, 1898.

ARCHBISHOP LEIGHTON BURSARY (*Arts and Theology alternately*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, which were tenable for four years in Philosophy, and two or three years in Divinity. By Ordinance No. 86 of the Universities Commissioners (1889), the two Bursaries were combined into one of the annual value of £18, to be called the Archbishop Leighton Bursary. An appointment is made of a Bursar in the

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[1] Vacant through lapse of time.

Faculty of Arts, and at the end of his period of tenure an appointment in the Faculty of Divinity, and so on alternately, the period of tenure in each case being three years, and a person who has held the Bursary in Arts being eligible for appointment also in Divinity. The appointment in 1901 was in Arts. The provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar. Applications must be lodged with the Town Clerk, City Chambers, on or before 1st September.

*Bursar.*—William R. Campbell, 1901.

JOHN LEYDEN BURSARY (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

*Bursar*—[1] James Stevenson, 1899.

JAMES LOCHHEAD BURSARY (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

*Bursar*—James M'Fadyen, 1900.

LOCHHEAD AND MITCHELL BURSARIES (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. The present annual value is £33 to each bursar. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

*Bursars*—George S. Gordon, 1899 ; John Miller, 1900.

LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. The preference to the names Logan and Johnstone was cancelled by Ordinance

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[1] Vacant through lapse of time.

No. 57 of the Universities Commission (1889). The value of each is £17 per annum. Appointment by the Senate.

*Bursar in Medicine*—Robert Donald, 1901.

*Bursar in Theology*—John Gilmour, M.A., 1900.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects :—1, Theology ; 2, Medicine ; 3, Philosophy ; 4, Mathematics ; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate :—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £19, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £19 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £19, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow. The subjects of examination, which shall be prescribed by the Faculty of Medicine, are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and, in the case of Chemistry and Botany, on the same papers. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed his Third Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £19, shall be open for competition to students who, having passed their whole Preliminary Examination, are entering on their second session of attendance, and who, not having attended the classes of Logic, Moral Philosophy, and English Literature, propose to attend these classes in the following sessions. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English

Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the Honours classes in English Literature, Logic, or Moral Philosophy. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed examinations in Logic, Moral Philosophy, and English for graduation in Arts.

5. Four Bursaries—viz., two at £25, and two at £19, shall be open for competition to students who, having passed the whole Preliminary Examination, are entering on their second session of attendance. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for passing the Honours examinations in Mathematics and Natural Philosophy for a Degree in Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations in Mathematics and Natural Philosophy for graduation in Arts or the First Science Examination in these subjects for graduation in Science.

In session 1902-3 eight of the above £19 Bursaries will be open to competition—viz., two in Theology, two in Medicine, two in Philosophy, and two in Mathematics. The Bursaries in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursaries in Medicine will be held on 29th and 30th September, 1902. For the Bursaries in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 280), and the examination will take place along with the Autumn examinations for M.A. in English and Logic. The examination for the Bursaries in Mathematics will take place along with the Arts and Science Preliminary Examination in Mathematics, but may embrace higher papers.

*Bursars in Theology*—[1] James F. Pollock, 1899; Duncan M'Arthur, 1900; A. S. Dunlop, M.A., 1901.

*Bursars in Medicine*—[1] John M. Kelly, 1899; [1] Peter L. Sutherland, 1899; John Graham, 1900; John S. Dunn, 1901.

*Bursars in Arts*—[1] John M. Hay (Phil.), 1899; [1] David A. Thomson (Phil.), 1899; [1] James H. Lindsay (Math.), 1899; [1] William Sutherland (Math.), 1899; Donald Carswell, (Phil.), 1900; Thomas B. Morley (Math.), 1900; Charles Cullen (Phil.), 1901; William Miller (Math.), 1901.

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[1] Vacant through lapse of time.

Lumsden Bursary (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value, £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company —have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology. (Vacant.)

Lusk Bursary (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Value, £30 per annum.

*Bursar*—Robert H. Napier, 1901.

Macarthur Bursary (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed three winter sessions of medical study, and not have entered on the fourth winter session. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th October to Alexander Duncan, LL.D., Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

*Bursars*—[1]William D. H. Stevenson, M.A., 1901; Carl Hamilton Browning, 1902.

M'Crie Bursaries (*Arts*).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and movable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. Forms of application may be obtained from Mr. A. G. Young, Town Clerk, Ayr, and should be lodged with him on or before the first day of September in each year in which a vacancy occurs. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. (Two vacancies.)

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[1] Bursar appointed to another bursary.

*Bursars*—William White, 1901; John M. Hunter, 1901.

James Melville M'Culloch Bursary (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

*Bursar*—[1] John M. M'Gauley, 1898.

Macdonald Bursaries (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history. (One vacancy.)

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[1] Vacant through lapse of time.

*Bursar.*—James Dunbar, 1901.

John and Isabella Macdougall Bursaries (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz.:—The Rev. Wm. G. H. Carmichael, East Church Parish; the Rev. F. H. Martin, St. Paul's Church Parish; the Rev. Peter R. Landreth, West Church Parish; the Rev. William Main, Middle Church Parish; and their successors in office for the time being, Mr. Thomas Soutar, retired banker, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (One vacancy.)

*Bursars*—Duncan M'Laren, 1900; William S. Stewart, 1901.

Malcolm M'Ewen Bursary (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884.

After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

*Bursar*—David Arthur, 1901.

JAMES MACFARLANE BURSARY (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing a the previous Bursar.

*Bursar*—John Chambers, 1901.

JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Faculty of Medicine. It is of £40 annual value, and it is tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, is to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of Examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and in the case of Chemistry and Botany on the same papers.

*Bursar*—[1] Alexander Matheson, 1899.

ROBERT MACFARLANE BURSARIES.—By a Mutual Trust Disposition and Settlement of date 7th January, 1888, Miss Mary Ann and Miss Margaret Macfarlane directed their Trustees to make over to the Senate of the University of Glasgow a sum of £3,000 for the foundation of Bursaries in memory of their brother, Robert Macfarlane, Writer, Paisley, out of the estate bequeathed by him to them. The Bursaries are to be given to deserving students at the University of Glasgow looking forward to being lawyers, specially including students in the Law Classes, preference being given to young men connected with Paisley.

MACGROUTHER BURSARIES (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years; subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A.

*Bursars*—James W. Buchan, £20, 1899; James H. Cockburn, £15, 1899.

M'KECHNIE BURSARIES (*Any Faculty*).—Two in number, founded by the Trust Disposition and Settlement of the late Thomas M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors, Girvan, early in August.

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[1] Vacant through lapse of time.

*Bursars*—Charles Nelson (Arts), 1899; John M'Cartney (Med.), 1899.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £31. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted in June by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while holding it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

*Bursar*—Ethel M. Lochhead, 1901.

M'KISSACK BURSARY (*Medicine, Arts, or Divinity*).—Founded in 1900 in terms of the Trust Disposition and Settlement of Mrs. Jane M'Kissack, Nairn, who bequeathed £750 for that purpose, in memory of her husband, Charles M'Kissack. The Patrons of the Bursary are the Provost and Bailies and the Ministers of the Presbyterian and Congregational Churches in the Royal Burgh of Nairn. The Bursary is tenable for four years, and is to be given to a medical student prosecuting his studies at any College, University, or Training Institute approved by the Patrons, in preparation for Christian mission work among the Jews. Failing a student in medicine, the Bursary may be given to a student in Arts or Divinity having the same object in view. Applicants must be of British nationality and not under seventeen years of age at the date of presentation. Preference, *cæteris paribus*, will be given to candidates of the name of M'Kissack, or natives of the counties of Elgin and Nairn, or candidates who have at any time resided for twelve consecutive months in these counties. The next presentation to the bursary will be made in September, 1905. For further particulars apply to Messrs. Lamb & Co., solicitors, Nairn.

*Bursar*—Herbert C. Orrin, 1901.

MACLEAN TRUST BURSARIES (*Arts*).—Under the scheme for the administration of the Trust of the late Colonel Alexander Maclean, approved of by the Court of Session on 18th July, 1895, the Governors are authorised to apply a portion of the revenue of the Trust in payment of Bursaries of the yearly value of not less than £25 each, tenable for four years at any Scottish University. The Bursaries are open to students of either sex of the name of Maclean entering on the Arts curriculum, and are awarded by competitive Examination in such manner as the Governors shall determine. The Bursars must regularly attend at least two classes each winter session in the curriculum for a degree in the Faculty of Arts. But any Bursar who has held his Bursary throughout a three years' curriculum in the Faculty of Arts, and taken a degree in that Faculty, may continue to hold it during the fourth year in any other Faculty. The Governors are the Lord Provost and Magistrates of the City of Glasgow. Forms of application can be received in the month of April each year, from the Town-Clerk, Glasgow, with whom applications must be lodged. (No vacancy.)

*Bursars*—Donald Maclean, 1899; John Maclean, 1899; Margaret A. M. Maclean, 1899; Edith Louise Maclean, 1900.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the then surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value, £15 per annum to each Bursar.

*Bursar in Medicine*—William L. Kirkwood, 1900.

*Bursar in Theology*—Neil MacPhail, 1901.

MARSHALL TRUST BURSARIES (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils of either sex who have held free scholarships or school bursaries under the scheme, and pupils of either sex who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust—William Mitchell, LL.D., 134 Wellington Street, Glasgow—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

*Bursars*—[1] Thomas Graham, 1897; [1] George Beaumont, 1897; [1] Peter Carrick, 1897; [1] John M'Laughlin, 1897; Archibald Lang, 1898; James P. Mackay, 1898; James Moyes, 1898; Matthew Stewart, 1898; William Manson, 1899; Robert Hamilton, 1899; John M'Lean, 1899; John M'Bryde, 1899; Edgar Barnes, 1900; Thomas L. Douglas, 1900; Neil M'Arthur, 1900; Margarette C. Paterson, 1900; James Ballantyne, 1901; George D. C. Stokes, 1901; John J. Dempster, 1901; Thomas Beaumont, 1901.

MENZIES BURSARIES (*Arts*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination :—*Latin*—Translation, (1) English into Latin ; (2) Latin into English, with grammatical questions and exercises. *Greek*—Translation, Greek into English, with grammatical questions and exercises. *English*—(1) The growth, structure, and grammar of the language; (2) The History of English Literature; (3) A short essay on a prescribed subject. *Mathematics*—(1) Arithmetic, general; (2) Algebra, up to and including Quadratic Equations; (3) Geometry, Euclid, the first six books, and the first twenty-one propositions of the eleventh book, with deductions ; (4) Trigonometry, up to and including the solution of triangles. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. John M. Menzies, The Menzies Estates Office, Aberfeldy, on or before 18th September. (One vacancy.)

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[1] Vacant through lapse of time.

*Bursars*—[1] Archibald Menzies, 1898; John M'Laren, 1899 ; J. C. H. Macnair, 1900.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879 by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, which may also be held in Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, or in Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examination for the Bursaries in Medicine are the subjects of the Medical Preliminary Examination, and for the Bursaries in Arts and Law are those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. When a vacancy occurs, applications should be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September.

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[1] Vacant through lapse of time.

*Bursar in Arts*—[1] Walter L. Henderson, 1898.

*Bursar in Law*—[1] Harry J. Phillips, 1899.

*Bursars in Medicine*—John Pearson, 1899 ; Alexander C. Russell, 1900.

METCALFE BURSARIES (*Science*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry ; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the Intermediate Honours class of Mathematics, or the class of Chemistry. (Two vacancies.)

*Bursars*—[1] James Sinclair, 1900 ; [1] John H. Stewart, 1900 ; Robert Irvine, 1901 ; Neil J. Maclean, 1901.

MITCHELL (See Lochhead and Mitchell, p. 284).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1902-3 a regular three years' Bursary will be competed for, the examination being in German.

*Bursars*—[1] John M'Millan, 1899 ; [2] Robert K. Milne (German), 1900 ; John D. Anderson (French), 1901.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, the late James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.* the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

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[1] Vacant through lapse of time.

[2] Bursar resigned.

*Bursars*—[1] Joseph White, M.A., 1900; William D. H. Stevenson, M.A., 1901.

MORGAN BURSARIES (*Arts and Theology*).—Mr. John Morgan, West India Merchant, who died at Springfield House, Bishopbriggs, on 4th May, 1894, in his Trust Disposition and Settlement directed the Merchants' House to pay over half-yearly to the Presbytery of Glasgow one third of the net revenue of his estate to be applied in providing Bursaries for students in the University of Glasgow intending to become ministers of the Church of Scotland, one third to students in Divinity and two thirds to students in Arts. The students in Arts must be under twenty years of age, and must have passed the Preliminary Examination. The appointments are made for one year only, but may be renewed from year to year for one or more years. No Morgan Bursary shall exceed £20 a year. The holder of another Bursary of £20 or upwards cannot be appointed to a Morgan Bursary, but the holder of a Bursary of less than £20 may be appointed to a Morgan Bursary of such value that the two Bursaries together shall not exceed £20. Further particulars and schedules to be filled up by applicants may be obtained from the Presbytery Clerk.

MUIR BURSARIES (*Two in Arts or Science, Two in Science, and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of

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[1] Vacant through lapse of time.

Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming:—

1. *Muir Bursary in Divinity.*—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in four subjects taken out of at least two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics.*—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics.*—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any

case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the *University Calendar.*

*Arrangements for Session* 1902-3.—*Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1903-4, 1904-5, shall be determined by the results of the written examinations passed in the course of the session 1902-3 by the public students of the Ordinary Class of Mathematics. The successful candidate shall, during session 1903-4, attend the Intermediate Honours Class, and during session 1904-5 the Advanced Honours Class of Mathematics. The appointment to the Senior Bursary, tenable during session 1903-4, shall be determined by the results of the written examinations passed in the course of the session 1902-3 by the public students of the Intermediate Honours Class. The successful candidate shall, during 1903-4, attend the Advanced Honours Mathematical class.

*Muir Bursaries in Civil Engineering and Mechanics.*—Candidates for the Bursaries tenable during session 1903-4 must be (*a*) students attending during session 1902-3 Engineering Class II. or the Class of Electrical Engineering, who are also attending or have in a previous session attended the Junior or the Senior Class of Engineering Drawing and Calculations, or (*b*) students attending during session 1902-3 the Junior or the Senior Class of Engineering Drawing and Calculations, who have in a previous session attended the Engineering Class II. or Class III. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of, those classes. The successful candidates shall, during session 1903-4, attend the Senior Class of Civil Engineering and Mechanics (Class IV.).

*Bursars in Mathematics.*—Junior Bursar for session 1902-3, Robert Harvie, 1901; Junior Bursar for sessions 1902-3, 1903-4, Thomas M. MacRobert, 1902; Senior Bursar for session 1902-3, William Miller, 1902.

*Bursars in Civil Engineering and Mechanics* for session 1902-3 —Neil J. Maclean, 1902; Bernard P. Haigh, 1902.

*Bursar in Theology.*—John T. Arnott, M.A., 1900.

William Muir Divinity Bursaries (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, on or before the 15th day of October. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years. (Both vacant.)

*Bursar*—[1] John C. Fearn, 1900.

NOTMAN BURSARY (*Theology*).—By deed of Settlement dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £18 per annum.

*Bursar*—Arthur P. S. Tulloch, M.A., 1900.

JAMES PATERSON BURSARY (*Arts*).—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. On the Bursary falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist Body.

*Bursar*—Thomas Stewart, 1900.

JAMES ALEXANDER PATERSON BURSARIES (*Arts and Medicine*).—Founded in 1892, under the Trust Disposition and Settlement of James Alexander Paterson (for many years a member of Shamrock Street United Presbyterian Church), who died at Glasgow on 31st January, 1889.

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[1] Vacant through lapse of time.

The Bursaries in Arts are tenable for three years. They are open to competition to students entering upon the first or second year of their attendance at the University, who purpose studying for the ministry in connection with the United Presbyterian Church, and who intend to qualify for and take, in the University of Glasgow, the degree of M.A. Each candidate before the competition must lodge with the Clerk of Senate, (1) a written declaration of his intention to comply with and observe these conditions, and (2) a certificate from the Chairman or Clerk of the Theological Committee of the United Presbyterian Church, bearing that the Candidate is recognized by that Church as an accepted student pursuing his studies with a view to the ministry therein. In October, 1902, three Bursaries of £35, £25, and £20 respectively will be offered for competition. The Examination is in Hebrew (Genesis, chap. xxiii., xxiv.) and Greek (Euripides, *Alcestis*, and Gospel according to Luke).

The Bursaries in Medicine are tenable for four years. They are open to competition to students entering upon the second year of their medical curriculum at the University of Glasgow, who intend to qualify for and take, in the University of Glasgow, the degree of M.B. Each candidate must before the competition deliver to the Clerk of Senate a written declaration of such intention. The subjects of examination are Mathematics and Natural Philosophy, and the papers will be on the same standard as the papers in Mathematics and Dynamics for the Bursary competition in Arts. Two Bursaries of £35 and £25 respectively will be offered to competition in October, 1902.

It shall be competent for the holders of these Bursaries, whether in Arts or in Medicine, to hold any other Bursary or Scholarship in this University, if the Regulations of that other Bursary or Scholarship permit.

*Bursars in Arts.*—[1] Alexander Borland (£40), 1899 ; [1] John Walker (£20), 1899 ; John Whitelaw (£35), 1900 ; James W. More (£35), 1901 ; John Baillie (£25), 1901 ; George J. Jeffrey (£20), 1901.

*Bursars in Medicine*—[1] Archibald Leitch (£30), 1898 ; [1] John Ferguson, M.A. (£15), 1898 ; James C. Pairman, M.A. (£30), 1899 ; Robert B. Carslaw, M.A. (£35), 1900 ; John L. Stewart, M.A. (£25), 1900 ; David J. M'Leish (£20), 1900 ; Peter Lowe, M.A., B.Sc. (£20), 1900 ; Thomas Barbour (£35), 1901 ; Peter Mitchell, M.A. (£25), 1901.

PATRICK BURSARIES (*Arts*).—These Bursaries were founded in 1860 by Mr. William Patrick of Roughwood, W.S., and were originally two in number, the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of

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[1] Vacant through lapse of time.

£1,000 of the same stock. They were tenable for two years, but might be continued for other two. By Ordinance No. 85 of the Universities Commission (1889) the number of Bursaries was increased to three, all equal in value, and tenable for four years. If a Bursar graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects also the provisions of Ordinance No. 57 apply to the Patrick Bursaries. Candidates must have gone through a course of education at some one of the Public Schools in the County of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

*Bursars*—William J. Auld, 1899 ; Adam Patrick, 1900 ; Charles G. G. Helme, 1901.

Pender Memorial Bursary.—Founded in 1898 by a Committee of which the Marquis of Tweeddale was Chairman to commemorate the leading part taken by the late Sir John Pender, G.C.M.G., in the establishment and development of Submarine Telegraphy and in its extension throughout the world. The fund consists of about £1,650. The following regulations were made by the Senate after communication with the Glasgow and West of Scotland Technical College and the Committee :—1. That the holding of a Diploma in Electrical Engineering of the Glasgow and West of Scotland Technical College be a condition of appointment to the Bursary. 2. That the appointment to the Bursary be made by the authorities of the Glasgow and West of Scotland Technical College. 3. That the Bursary be tenable for one year. 4. That the Bursar be required during his tenure to attend in the University three full courses or their equivalent from among those that would constitute in his case a qualifying curriculum of study for the Degree of B.Sc. in Engineering. 5. That, in the event of there being no candidate deemed worthy of appointment in any year, the interest be held over to provide a second Bursary in a subsequent year.

*Bursar*—Robert Bilsland, 1902.

Glasgow Perthshire Society's Bursary (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bonâ fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Messrs. George Gray and Son, County Buildings, Glasgow, Secretaries of the Society, not later than the twenty-fifth day of August preceding the competition.

*Bursar*—George Green, 1900.

Pollock Bursaries (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations in four subjects taken out of at least two departments for graduation in Arts.

*Bursars*—[1] Duncan D. Hair, 1899; William Brown, 1900; Henry Lambie, 1901.

T. and V. Pratt Bursaries (*Any Faculty*).—The late Mr. Thomas Pratt, who resided at Castleyett, near Lanark, by his Trust Disposition and Settlement, dated 22nd December, 1877, directed his Trustees, as soon after his death as convenient for them, to set apart and invest in name of themselves and such other Trustees as they might deem suitable, a sum to yield an annual income of £40, for the purpose of establishing two Bursaries of £20 each, to be called the T. and V. Pratt Bursaries, to assist in maintaining and educating two students in the University of Glasgow or Edinburgh. The necessary funds have now been set aside and invested in name of Trustees for this purpose. The Bursaries are open to sons and daughters of working men residing in or belonging to the United Parishes of Wiston and Roberton, and the Parish of Lamington. His Majesty's Inspector of Schools for the district is to name the candidates found after examination to be best qualified and most deserving of the Bursaries, and the examination which, with the concurrence of the Trustees, he at present prescribes is the General Bursary Competition Examination in Arts at Glasgow University. The Bursaries are tenable for four years, or such shorter time as the Bursar may remain at the University, unless the Trustees are dissatisfied with the Bursar's conduct or diligence. When a vacancy occurs, applications should be lodged with the Trustees' Agents, Messrs. MacLean, Fyfe and MacLean, Writers, 115 St. Vincent Street, on or before 1st September. (Bursaries both vacant.)

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[1] Vacant through lapse of time.

RAINY BURSARIES (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Faculty of Medicine, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

The successful candidate may hold his Bursary for two years, namely, during his fourth and fifth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

A Rainy Bursary will be awarded in November, 1902, to the qualified candidate who, not being the holder of a bursary of equal or greater value, shall be found to have passed in the year 1902 in Anatomy and Physiology of the second Professional examination, and whose aggregate of marks in these subjects and in Chemistry, Botany and Zoology of the first Professional examination, is the highest.

*Bursars*—[1] Carl H. Browning, 1900 ; Spencer Mort, 1901.

RAMSAY WALKER BURSARIES (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years.

*Bursars*—Robert C. Thomson, 1900 ; John A. Swan, 1900.

ROSS BURSARY.—(See Hyndford and Ross, p. 280.)

JOHN ROSS, JUNIOR, BURSARY (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Burse shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—[1] Alexander Cross, M.A., 1899.

SANDERS BURSARY.—(See Boyd and Sanders Bursary, p. 255.)

(SIR WALTER) SCOTT BURSARIES (*Arts*).—The centenary of the birth of Sir Walter Scott was celebrated in Glasgow in 1871, and in conformity with a suggestion made by Lord Stanley (Earl of

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[1] Vacant through lapse of time.

Derby), then Lord Rector of the University, the committee who had charge of the arrangements resolved to raise by public subscription a fund for the benefit of distinguished students, and to associate it with Scott's name. The amount subscribed was £3,500, and accordingly two Bursaries, along with the Scott Scholarship, were founded in 1874. The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being an Assessor of the Council in the University Court, appointed by the four Assessors or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889). The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

*Bursars*—Robert M. Morison, 1899 ; Robert A. Houstoun, 1900 ; Edith Urquhart, 1901.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry, in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of £30, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

*Bursars*—Andrew Henderson (one year), 1901.

SHIPWRIGHTS' COMPANY BURSARY.—The Fishmongers Company of London has placed the sum of £50 per annum at the disposal of the Educational Trust Fund Committee of the Shipwrights' Company for a period of three years that a Scholarship or Bursary may be given to a deserving student of Naval Architecture in this University. Appointment to the Bursary rests with the Educational Trust Fund Committee, and with a view to an appointment being made in October, 1902, the Senate has been invited to nominate a promising and deserving student. Applications to be sent to the Clerk of Senate on or before 1st October.

SMITH (CRUTHERLAND) BURSARY (*Any Faculty*).—In 1849 Dr. John Smith of Crutherland founded two bursaries, which were not restricted to any particular Faculty. Patrons—the Directors of the Incorporated Company of Stationers. Sons of members of the Company are preferred, then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. The value of each was £9 per annum, and they were tenable for one or more years at the option of the patrons. Ordinance No. 77, issued on 15th February, 1895, provides that the two bursaries shall hereafter be conjoined into one, and that the bursary shall be tenable for four years. If a bursar in Arts graduate at the end of three years, he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. If a bursar in Divinity graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow. (Vacant.)

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two Bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years.

*Bursars*—[1] John R. Spence, 1898 ; Archibald A. Bowman, 1900.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson were preferred, but this preference was cancelled by Ordinance No. 57 of the Universities Commission (1889). In case of a vacancy, a student of the same standing is appointed.

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[1] Vacant through lapse of time.

*Bursars*—Robert Cunningham, 1899 ; Alexander Murphy, 1900 ; Clark Nicholson, 1900.

STILLIE BURSARY IN MUSIC.—This Bursary was founded by Mrs. Thomas Stillie in 1885, the Trustees being the Executive Council of Queen Margaret College, and their successors in office. The Trustees were to apply the annual proceeds of the investment of £125 in providing one Bursary, to be granted yearly to a student of Music, as a reward for proficiency in Music, and an encouragement to further study. The Trustees were empowered to make such regulations as they should see fit from time to time for testing the merits of the candidates, and also for prescribing the age of candidates and the course of study to be pursued in connection with Queen Margaret College or otherwise, which the Trustees might desiderate as a condition of awarding the Bursary. The University Court, having taken over Queen Margaret College, are the successors in office of the Executive Council of Queen Margaret College in respect of the Stillie Bursary Fund, which in January, 1895, amounted to £160. The following regulations have been adopted by the Court:—1. The Bursary shall be awarded in connection with the examinations in Music conducted in Glasgow by the Associated Board of the Royal Academy of Music and the Royal College of Music. 2. The Bursary shall be awarded by the Senate on a report by the Examiners of the said Board. 3. Only candidates for the Senior Grade Examination shall be eligible, and the Bursary shall be awarded to the candidate examined in Glasgow who shall obtain the highest number of marks in that examination. 4. The Bursary shall not be awarded if the candidate with the highest number of marks has not obtained honours ; and in that case the proceeds shall be added to the capital fund.

*Bursar*—Mary H. Nairn, 1901.

DR. STRANG BURSARIES (*Science*).—Mrs. Machen of Ferniecraig, Skelmorlie, who died recently, left funds for the foundation of four Bursaries, each of the annual value of £20, to be instituted in connection with the University of Glasgow, in memory of her brother, the late Dr. John Strang, City Chamberlain of Glasgow from 1834 to 1863. The Trustees under their powers have meanwhile agreed that these Bursaries should be tenable by students of Engineering Science in the University of Glasgow. Each Bursary is tenable for three years. The Bursaries shall be awarded on the results of the Science Preliminary Examination, and no candidate shall be appointed to a Bursary unless he passes the whole preliminary examination. Each Bursar shall be required to attend a course qualifying him for graduation in Engineering Science on the side of Engineering.

The Bursaries shall be payable by equal moieties in the month of January and at the close of the winter session, but the second moiety of the second year's Burse shall not be paid until the student has passed the first Science Examination for B.Sc. in Engineering Science, except in special circumstances. No student shall be entitled to hold a Dr. Strang Bursary who is receiving any other Bursary.

In each of the years in which two appointments fall to be made, the Trustees, in appointing to the second Bursary, will take into account, not only the results of the examination, but also, and specially, other circumstances (financial and otherwise) affecting the candidates.

Further particulars may be obtained from Professor Barr, D.Sc., Engineering Department, University of Glasgow, or from Messrs. Kerr & Barrie, Solicitors, 149 St. Vincent Street. (Two vacancies.)

*Bursars*—[1]James M. Begg, 1899; [1]Joseph Henery, 1899; [1]Fryer T. A. Smyth, 1899.

STRUTHERS BURSARY.—(See Gilhagie and Struthers Bursary, p. 273.)

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. The preference given to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur, was cancelled by Ordinance No. 57 of the Universities Commission (1889).

*Bursars*—Gilbert P. Hogg, 1901; Arthur Turnbull, 1901.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts*, *Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876 before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately. The examination is open to all students of the first and second year who have not already attended the Logic, Moral Philosophy, or English Literature Class, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed his examinations in Latin and Greek for the M.A. Degree in Glasgow

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[1] Vacant through lapse of time.

University. The subjects of Examination in Mental Philosophy and English Literature respectively are the same as for the John Ferguson Jaffrey Bursary. (See page 281.)

The next examination will be held in October, 1902, the subject of examination being English Literature.

*Bursar*—[1] John A. Swan (one year), 1901.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have, at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed in any two subjects for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the October of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the October two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1902. Applications to be sent in to the Clerk of Senate on or before 1st December.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £34 per annum.

*Bursar*—Alfred C. Sharp, 1901.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session, in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

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[1] Vacant through lapse of time.

*Bursar*—[1]Joseph White, M.A., B.Sc., 1901.

WILLIAM WHYTE BURSARIES (*Arts, Law, or Medicine*).—Four in number, founded in 1893 in memory of Mr. William Whyte, at one time Preceptor of Hutchesons' Hospital, in accordance with instructions contained in the Trust Disposition and Settlement of his daughter, Mrs. Isabella Whyte or Bamber, who died in 1882. The Trustees executed a Deed of Mortification transferring £2,000, less legacy duty, to Hutchesons' Hospital. The Bursaries are each of the annual value of £25, and are tenable for four sessions in the Faculties of Arts, Law, or Medicine. They are open to competition by boys who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Candidates must give in their names to Messrs. Hill & Hoggan on or before 1st September in each year, to be sent to the Clerk of Senate, that they may be entered for the University Entrance Bursary Competition. One Bursary will be awarded every year to the candidate highest in the order of merit who shall not have gained and elected to hold a Bursary of equal or higher value at the general competition, provided his attainments have reached a standard satisfactory to the Patrons of Hutchesons' Hospital.

The sum of £408 15s. 8d. at the credit of the Fund at 31st December, 1892, is to be allowed to accumulate until that sum, with such additions as may accrue from any portion of the income that may not be required for the purposes aforesaid, shall amount to a sum which will produce a return of £20 yearly. There shall then be instituted a Bursary of that value, to be competed for by girls educated in Hutchesons' Girls' School, which Bursary shall be tenable at the University of Glasgow.

*Bursars*—[1]David R. Mitchell, 1898 ; Allan R. Barrowman, 1899 ; John D. Simpson, 1900 ; George Campbell, 1901.

KING WILLIAM'S BURSARIES (*Two in Arts and Two in Theology*). —These Bursaries, founded by his Majesty King William III. in

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[1] Vacant through lapse of time.

1695, were formerly six in number and known as the Exchequer Bursaries. They were tenable for six years—the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. The bursars in Philosophy received £10 per annum each, and those in Divinity £13 6s. 8d. The Foundation was regulated by Act of Parliament, 1758. By Ordinance No. 99 the Universities Commission (1889) altered the conditions and directions affecting the Foundation, making two Bursaries in the Faculty of Arts, each of the annual value of £15, and two in the Faculty of Divinity each of the annual value of £20. Each of the Bursaries is tenable for three years, and no longer. The Bursaries in Arts are open by competition to all students entering on their first year of attendance on a course of study for graduation in Arts. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study for graduation in Divinity. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this foundation.

*Bursars in Arts*—[1]John Hutcheson, 1899; James Miller, 1900.

*Bursars in Divinity*—[1]James R. S. Wilson, M.A., 1899; Matthew Babington, M.A., 1900.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711 bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Francis H. Jones, B.A., Dr. Williams' Library, Gordon Square, London, W.C., with whom applications, accompanied by the necessary certificates, should be lodged before 1st June. (One vacancy.)

*Bursars*—Harold C. Rowse, 1900; John Lewis, 1900; [2]Henry M. Trafford, 1901.

WILSONE BURSARY.—(See Boyd and Wilson, p. 256.)

GEORGE YOUNG BURSARY (*Science*).—By Trust Disposition and Settlement of date 30th August, 1892, Mrs. Catherine M'Farlane or Young, who died at Helensburgh on 4th November, 1893, directed her Trustees to make over to the Senate of the University of

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[1] Vacant through lapse of time.

[2] Appointed subject to Ord. No. 57, Section xv.

Glasgow the sum of £1,000, free of legacy duty, for the purpose of founding, in memory of her husband and son, a Bursary in connection with the class of Civil Engineering, on such terms and conditions as the Senate should from time to time fix. The Senate have determined that the Bursary shall, upon the recommendation of the Faculty of Science, be awarded to the candidate who has the best record in his First Science Examination. Students who have passed the whole of that examination or at least in Mathematics and Natural Philosophy with or without the higher branches specified in Ordinance No. 23, Section ix., Subsections 1 and 2, may offer themselves as candidates, but students who have completed the qualifying attendance in Engineering shall not be eligible. The Bursary shall be tenable for one year, during which the Bursar must attend a course of Laboratory Practice in Engineering and either a course (or half course) of Engineering Lectures or a course of Engineering Drawing. Appointment in the month of April after the Degree Examinations.

*Bursar*—[1] Neil J. Maclean, 1901.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890 by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,312, and each of the Bursars receives one half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *cæteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition. (Both vacant).

*Bursar*—[1] William R. Merry (two years), 1900.

[1] Vacant through lapse of time.

## 2. *EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.*

### ALPHABETICALLY ARRANGED.

*N.B.*—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

| FOUNDATION. | No. of Scholarships, &c. | TENABLE BY | Approximate Annual Value of each. |
|---|---|---|---|
| Black Theological, - | 1 | Masters of Arts of Scot. Univ., | £126 |
| Breadalbane, - - - | 2 | M.A. or B.Sc., Eng., Glas. Univ., | £50 |
| Clark, George A., - - | 4 | 3 M.A., 1 M.A. or B.Sc., do. | £168 |
| Clark, John (Mile-end), | 12 | Arts Students at close of Curric., | £50 |
| Coats Memorial, - | 1 | Medical Graduates of Glas. Univ., | £60 |
| Cunninghame, - - - | 2 | Bachelors of Laws of Glas. Univ., | £34 |
| Donaldson, Alexander, | 1 | Candidates for B.Sc. (Chemistry), | £40 |
| Donaldson, Robert, - | 2 | Bachelors of Science of Gl. Univ., | £64 |
| Eglinton, - - - - - | 2 | Masters of Arts of do. | £65 |
| Euing, William, - - | 3 | Do. do. | £100 |
| 1851 Exhibition Science | 2 | Science Students, - - - - | £150 |
| Ferguson, - - - - - | 6 | Masters of Arts of Scot. Univ., | £80 |
| Foulis Memorial, - - | 1 | Medical Graduates or Licentiates, | £50 |
| Houldsworth, - - - | 1 | Research Students in Nat. Phil., | £150 |
| Lloyd's Register, - - | 3 | Students of Naval Architecture, | £50 |
| Luke, - - - - - - - | 1 | Masters of Arts of Glas. Univ., | £95 |
| Mackay Smith, - - - | 2 | Students in Nat. Phil. and Chem., | £48 |
| Mackinnon, - - - - | 1 | (See page 329), | £50 |
| Metcalfe, - - - - - | 1 | Masters of Arts of Glas. Univ., | £100 |
| Reid-Stewart, - - - | 1 | Do. do. | £50 |
| Sandford, - - - - - | 1 | Greek Students, do. | £20 |
| Scott (Sir Walter), - | 1 | Masters of Arts of do. | £80 |
| Shaw Philosophical, - | 1 | Do. Scot. Univ., | £140 |
| Snell (at Oxford), - - | 5 | Masters of Arts, etc., Glas. Univ., | £80 |
| Thomson Experimental | 3 | Students of Natural Philosophy, | £20 |
| Watt, James, - - - | 1 | Bachelors of Science, - - - | £37 |

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, which is now of the annual value of £126, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court :—

1. The Black Theological Fellowship shall be tenable for one year.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland completing the ordinary curriculum of Theological study in the University of Glasgow in the academical year in which the examinations are held.

3. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

4. The Fellowship shall be awarded by the Theological Faculty at the close of the winter session to the most distinguished graduate in Divinity of the session qualified in terms of the foundation, but the Fellowship shall be awarded only if the Candidate has, in the opinion of the Faculty, attained a sufficient standard of merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship or Prize falling to be awarded at the same time, or subsequently during its tenure.

Subject to these regulations an appointment to the Fellowship will be made in April, 1903.

*Present Fellow*—William Fulton, B.Sc., B.D., 1902.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the "annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as scholarships or Bursaries, to be called the 'Breadalbane Scholarships,' in such manner as shall be fixed by the Senatus Academicus of the said University."

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination ; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in April immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years; provided that at the end of the first and second years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

*Scholars*—Archibald M. Macmillan, M.A., B.Sc., 1901; Francis P. H. Stirling, M.A., 1901.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations:—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts or Science.

2. The four Bursaries are assigned respectively to four of the Groups of Honours enumerated in Ordinance No. 11, Section XI., of the Universities Commission (1889), viz.:—(1) Classics; (2) Mental Philosophy; (3) Mathematics and Natural Philosophy; (4) English (Language, Literature, and British History).

For the Classics Bursary or Scholarship either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics, may be candidates; for the Mental Philosophy Bursary or Scholarship, either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy, may be candidates; for the Bursary or Scholarship in Mathematics and Natural Philosophy either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics and Natural Philosophy, or Bachelors of Science of this University who have taken the Degree of B.Sc. in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science in the subjects of Mathematics and Natural Philosophy, may be candidates; and for the Bursary or Scholarship in English either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in English, may be candidates.

But no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. Degree or the B.Sc. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named Groups (the Group selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year; provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments, and for the Degree of B.Sc.

One of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1902. It will be tenable for four years, and the examination will be in the second of the four groups above enumerated, viz., Mental Philosophy.

Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 17th September.

*Bursars*—[1] Hugh R. Buchanan, M.A., 1898 (Mental Philosophy); George D. Valentine, M.A., 1899 (Mathematics and Natural Philosophy); John L. Morison, M.A., 1900 (English); Samuel F. H. Mackay, M.A., 1901 (Classics).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 260), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees have resolved that they will not, in ordinary circumstances, appoint to a Scholarship any one who holds a Scholarship of equal or greater value, and that no student shall be eligible for the examination after the expiry of more than eight winter sessions from the time of his first entering a qualifying class. Three Scholarships are offered for competition in October, 1902, one in the Group of Semitic Language, one in the Group of English, and one in the Group of Modern Languages. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective Groups.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), and also to Mr. Wm. Kidston, 50 West Regent Street, Glasgow, on or before the 17th September.

*Scholars*—Joseph White, 1898 (Math. and Nat. Phil.); John Lochhead, 1898 (English); William M. R. Pringle, 1898 (History); George Ogilvie, 1899 (English); Robert M'Ewan, 1899 (Classics); James F. Dyer, 1900 (Classics); Alexander B. Mackay 1900 (Mental Philosophy); Thomas Jones, 1900 (Economic Science); Steuart N. Miller, 1901 (Classics); William R. Wiseman, 1901 (Mental Philosophy); David G. Taylor, 1901 (Math. and Nat. Phil.).

JOSEPH COATS MEMORIAL SCHOLARSHIP.—Founded in 1900 by the friends of the late Professor Coats, as a memorial of his distinguished services to Pathological Science, and in recognition of the ability and enthusiasm which he devoted to advance the teaching of the subject in Glasgow. The Scholarship is for the encouragement of original research in Pathology, is awarded biennially, and is tenable for one year. The Committee of subscribers paid over to the University Court £1,200, to the free proceeds of which for the two preceding years the Scholar is entitled during his year of tenure. Candidates must be graduates in Medicine in the University of Glasgow of not more than three years standing. The Scholarship will be awarded by the Senate on the results of a practical examination in Pathology, conducted by the Professor of Pathology with the assistance of two other members of the Faculty of Medicine to be appointed by the Senate in the beginning of October of every second year. The successful candidate must, for nine months following the award, prosecute research in Pathology with the Pathological Institute at the Western Infirmary, or in a Laboratory elsewhere approved of by the Faculty of Medicine, and shall not engage in Medical or Surgical practice during that period. The first appointment will be made in the beginning of session 1903-4.

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[1] Vacant through lapse of time.

Andrew Cunninghame Scholarships.—Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888 :—

1. One half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any

Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Conveyancing Scholarship will be made in November, 1902.

*Scholars*—[1] Malcom Dunlop, LL.B., 1900; John Girvan, LL.B., 1901 (Scots Law).

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881 by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884:—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc. held in the month of April, shall stand highest in Chemistry.
2. The Scholarship shall be tenable for two years.
3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

The next appointment will be made after the B.Sc. examination in April, 1904.

*Scholar*—Robert Irvine, M.A., 1902.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as the trustees should approve. The following tentative scheme has been approved by the trustees:—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.
2. Each Scholarship shall be tenable for two years.
3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.
4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.
5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholar-

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[1] Vacant through lapse of time.

ship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

The appointment in November, 1902, will be in Biology.

*Scholar*—[1] Ruth Pirret, B.Sc., 1900.

Eglinton Fellowships.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition, and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £65 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the

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[1] Vacant through lapse of time.

competition.[1] In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1902); and the other in October, 1867, and thereafter triennially (1903).

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially (1902), shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893, and thereafter sexennially (1905), shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The Examination for the Eglinton Fellowship to be competed for in October, 1897, and thereafter sexennially (1903), shall be in Mathematics and Natural Philosophy; and the Examination for the Eglinton Fellowship to be competed for in October, 1900, and thereafter sexennially (1906), shall be in English (Language, Literature, and British History).

The subjects of examination in Mathematics and Natural Philosophy and in English respectively shall be the same as those for the Degree of Master of Arts with Honours.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1902, the subject of examination being Classics.

*Fellow*—Ritchie Girvan, M.A., 1900 (English).

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr. William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and "to open private classes of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition."

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[1] *i.e.* Either at the ordinary graduation in April or at the supplementary graduation in November.

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition for these Fellowships:—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1903), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1903), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a Fellow appointed for two years; the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years, the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

*Fellows*—Robert D. Bell, M.A., 1899 (Classics); Alexander Montgomerie, M.A., 1900 (Mental Philosophy); Roderick M. Nicol, M.A., 1901 (Math. and Nat. Phil.).

EXHIBITION (1851) SCIENCE RESEARCH SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition of 1851 have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship has been placed at the disposal of this University in each year since 1891, and it is anticipated that similar arrangements will be made in future years.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as the main qualification. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners ; and every scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries. A sum of £25 is reserved from the fourth half-yearly instalment, and paid by the Commissioners on receipt from the Scholar, after the expiration of his Scholarship term, of a satisfactory report of his study and research during the term.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

*Scholar*—John A. Craw, 1901.

Ferguson Scholarships.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called " The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 23rd September next, and two following days. One of the Scholarships will be awarded for the greatest proficiency in Classics ; one for the greatest proficiency in Mathematics, including Natural Philosophy ; and one for the greatest proficiency in Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy.

Subjects for examination—

Classical Scholarship.—Latin Prose Composition ; Latin Translation ; Greek Prose Composition ; Greek Translation. General—

(*a*) Critical; (*b*) Greek and Latin History; (*c*) Greek and Latin Literature. Verse Composition, either in Greek or Latin; or an original Latin Essay on some subject connected with Ancient History, Literature, or Life.

MATHEMATICAL SCHOLARSHIP.—*Mathematics*—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

*Natural Philosophy.*—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Acoustics, Heat, Light, Magnetism and Electricity, treated both mathematically and experimentally.

Candidates will be allowed a choice of questions, and may obtain full marks by showing good general knowledge and an intimate acquaintance with any branches they may have specially studied.

PHILOSOPHICAL SCHOLARSHIP.—*Logic.*—Province and History of Logic. Notions, Judgments, and Inferences. Recent developments of Formal Logic. Fallacies. Theory and Methods of Scientific and of Historical Proof.

*Psychology and Metaphysics.*—The Phenomena and Laws of Mental Life and of its Development. Theory of Knowledge. Theory of Reality.

*Moral Philosophy.*—Psychology and Metaphysics of Ethics. Relations of Ethics to Law, Politics, and Economics. Applied Ethics.

*History of Philosophy.*—History and Critical Analysis of Ancient and Modern Systems of Philosophy.

The competition will be open to all persons who have passed the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the Degree at the same time or not), provided that, at the time of the competition, not more than six years have elapsed since the date of their first entering a class qualifying for the M.A. Degree, and who have not already gained one of these Scholarships.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 60 per cent. of the possible marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees:—

"Persons gaining the Scholarships will be expected, during the "tenure thereof, to prosecute studies in furtherance of the higher "learning; and those who have not graduated shall be required to "do so before the last payment is made."

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, before 1st September, 1902, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical ; 1869, Archibald B. Cameron, Philosophical ; 1870, John Cross, Classical ; 1870, James Orr, Philosophical ; 1872, Wm. W. Waddell, Classical ; 1873, Thomas H. Miller, Mathematical ; 1874, William Patrick, Philosophical ; 1875, William Y. King, Classical ; 1878, John M'A. Dodds, Mathematical ; 1878, Thomas B. Kilpatrick, Philosophical ; 1882, Robert F. Muirhead, Mathematical ; 1883, James A. M'Callum, Philosophical ; 1886, James Buchanan, Mathematical ; 1886, Andrew F. Smith, Philosophical ; 1888, Ernest F. Scott, Classical ; 1889, Evan Kerr Evans, M.A., Philosophical ; 1890, Abraham Levine, M.A., Mathematical ; 1891, James Holm, M.A., Mathematical ; 1893, Horatio S. Carslaw, M.A., Mathematical ; 1897, William Boyd, M.A., Philosophical ; 1898, George D. Valentine, M.A., Mathematical ; 1899, Robert D. Bell, M.A., Classical ; 1900, David K. Picken, M A., Mathematical ; 1901, David M. Stewart, M.A., Mathematical ; 1901, Alexander D. Lindsay, M.A., Philosophical.

*Present Holders of the Scholarships.*—James M. Watson, M.A., of St. Andrews University, Classics, 1900 ; David K. Picken, M.A., of Glasgow University, Mathematics, 1900 ; Thomas M. Watt, M.A., of Aberdeen University, Mental Philosophy, 1900 ; William Rennie, M.A., of Edinburgh University, Classics, 1901 ; David M. Stewart, M.A., of Glasgow University, Mathematics, 1901 ; Alexander D. Lindsay, M.A., Mental Philosophy, 1901.

FOULIS MEMORIAL SCHOLARSHIP.—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. The next vacancy will take place in session 1903-4. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow ; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees ; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Further particulars may be obtained from Messrs. J. M. Taylor, Foulis & Co., 180 St. Vincent Street.

*Scholar*—Alexander R. Ferguson, M.D., 1901.

William Houldsworth Research Studentship.—In March, 1898, the late William Houldsworth, merchant in Glasgow, in recognition of the distinguished services of his friend, Lord Kelvin, to the cause of scientific research, made over to the University the sum of £5600 invested in Great Eastern Railway Four per cent. Debenture Stock, to provide a Research Studentship in connection with the Faculty of Science. Candidates must be students of at least two years' standing in the University of Glasgow. The studentship is tenable for two years, and the holder must prosecute his work with diligence and regularity so as to receive from the Professor of Natural Philosophy a certificate of creditable success. A proportion, viz., four-fifths, of the annual income is payable without deduction to the Research Student for personal expenses, and the remaining fifth part, after meeting the expenses of administration, is applied in payment of laboratory expenses and materials in connection with the Research Student's work, and in payment of his matriculation fees and of the fees for such Science Classes, if any, at the University as he may attend with the approval of the Senate. The said one-fifth part of the income must be expended at the sight and to the satisfaction of the Professor of Natural Philosophy or upon orders granted by him, and the Research Student is required to furnish the Professor with a statement showing the sums so expended in each session, and also during his tenure of the Studentship. Any surplus remaining over shall be added to the principal of the fund. In the event of the Studentship falling vacant otherwise than by lapse of time, the Senate may immediately make another appointment for a period not exceeding two years, and in the event of the Senate considering it not advisable at any time to make an appointment on the occurrence either of a casual vacancy or of a vacancy in regular course, the same may be deferred, and the income thus left unused shall be added to the principal of the fund.

When a vacancy occurs, the applications of candidates must set forth the particulars required by Ordinance No. 61, Section III. See page 145.

*Research Student*—Alexander Wood, B.Sc., 1902.

Lloyd's Register Scholarship.—In 1889 the General Committee of Lloyd's Register of British and Foreign Shipping intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. In 1893 two additional Scholarships, each of the same value and tenure of the first, were announced. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following :--Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem ; Plane Trigonometry, with use of Logarithms ; Elements of Statics, Dynamics, and Hydrostatics ; Practical Shipbuilding ; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed. One Scholarship will be open to competition in October, 1902. Names of Candidates to be sent to the Assistant Clerk (Matriculation Office) on or before 17th September, 1902.

*Scholars*—[1] William M. Gray, 1899 ; James B. Dickie, 1900 ; William Dawson, 1901.

Luke Fellowship.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, "to perpetuate the memory of his nephew George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial." Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations :—

1. There shall be a single Luke Fellowship (of about £95 per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially.

4. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing; provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the April immediately preceding.

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[1] Vacant through lapse of time.

5. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

6. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Ordinance No. 100 of the Universities Commission (1889) prescribes that the provisions of Ordinance No. 57 shall apply to the Luke Fellowship, but provides that it shall not be a condition of tenure of the Fellowship that the holder shall give assistance in teaching the class of English Literature.

The next competition for the Luke Fellowship will take place in October, 1904.

*Fellow*—Charles A. Young, 1901.

Mackay Smith Scholarships.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1904-5. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The Scholarship in Chemistry will be awarded on an examination held at the same time and of the same scope as the Final Science Examination in that subject for the Degree of B.Sc. in Pure Science, and the Scholarship in Natural Philosophy on an examination held at the same time and of the same scope as the examination in that subject for the degree of M.A. with Honours.

*Scholars*—Alfred Walter Stewart, B.Sc., 1901 (Chemistry); Robert A. Houstoun, 1901 (Natural Philosophy).

Mackinnon Scholarship.—By the will of the late Sir William Alexander Mackinnon, K.C.B., LL.D., Surgeon-General of Her Majesty's Army and Director-General of the Army Medical Staff, a sum of £2000, less legacy duty, was bequeathed to this University for the foundation of a Scholarship. The Scholarship is to be awarded to the person who shall in each year show the greatest proficiency in a competitive examination in (1) Geology, (2) Natural History (with Comparative Anatomy), and (3) Modern Foreign Languages, the examination in each subject to be held every third year. The subjects are to be taken in rotation, commencing in such order as the University authorities shall determine. In the event of the Scholarship not being awarded in any year, the amount of the Scholarship with any accumulations shall be added to the amount to form the Scholarship in the same subject on the recurrence of the examination therein.

The following are the regulations :

1. The rotation of subjects shall be as follows :—Modern Foreign Languages at the Autumn Degree Examination, 1903, Natural History (with Comparative Anatomy) in Autumn, 1904, and Geology in Autumn, 1902, and so on thereafter.

2. The examination in Modern Foreign Languages shall be the same, and shall be held at the same time as the examination for Degrees in Arts with Honours in Modern Languages.

3. The examinations in Natural History (with Comparative Anatomy) and in Geology shall be the same, and held at the same time as the Final Science Examination in these subjects for the Degree of B.Sc.

4. The holder of the Scholarship in one year shall be eligible for reappointment the next year, provided he is found qualified on examination in the subject for that year ; provided also that no candidate shall hold the Scholarship more than once in any subject.

5. The order of merit shall be fixed by the examiners at each examination, but no appointment in the Science subjects shall be made unless the candidate highest on the list shall have obtained at least 65 per cent. of the attainable marks.

6. Should the Mackinnon Scholarship in Geology fall vacant at the same time as the Baxter Demonstratorship, the two appointments may be held concurrently.

Subject to these regulations, an appointment falls to be made after the examinations in September-October, 1902, to the Scholarship in Geology.

*Scholar*—[1] Alexander Graham, 1901 (Natural History).

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 296.)

The following are the regulations of the Metcalfe Fellowship :—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1902).

2. Candidates must be Masters of Arts with Honours in the Group of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the April immediately preceding.

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[1] Vacant through lapse of time.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the Group of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Astronomy, Civil Engineering, and Chemistry —as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

*Fellow*—[1] David K. Picken, 1899.

REID STEWART FELLOWSHIP.—Mr. James Reid Stewart, Ironmaster, Glasgow, who died on 8th August, 1896, directed his Trustees to pay a legacy of £2000, under deduction of legacy duty, to the Senate, the free income of which is to be applied in and towards a Fellowship to be called the Reid Stewart Fellowship.

The following are the regulations:—

1. Candidates must be Masters of Arts who have taken the Degree of M.A. with Honours in either the Group of History or the Group of Economic Science, or be students presenting themselves for the final examination for the M.A. Degree with Honours in either of these Groups. The Fellowship shall alternate between History and Economic Science, beginning with History and giving three years to each.

But no student shall be admitted to the examination after the expiry of more than three winter sessions from the time of his completing the course necessary for the Degree of M.A. with Honours in either of these Groups.

2. The papers set in the examination shall be the same as the papers set for Honours in these Groups at the October examinations for Degrees in Arts, and the Examiners shall be the Examiners for the Degree of M.A. with Honours in these Groups. The Fellowship will be awarded for excellence in one Group, but not in both.

3. The Fellowship shall be tenable for three years, subject to the condition that the holder give his time and attention to the prosecution of his studies with a view to one of the learned professions or to such professional or business avocation as may be approved of by the Senate.

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[1] Vacant through lapse of time.

4. In the event of a vacancy occurring otherwise than by lapse of time, it shall be in the power of the Senate to appoint, after competition under the same conditions as above, either for the unexpired period of the vacated Fellowship or for the full period of three years. If the Fellowship is offered for a period of less than three years, the conditions of competition and tenure shall be the same as those stated above, provided that no student shall be excluded from the competition who was eligible when the Fellowship was last offered for three years.

5. In the event of the Examiners reporting in any year that no candidate has done sufficiently well to deserve the Fellowship, no appointment shall be made on that occasion, but the Fellowship shall be offered for competition in the following year under the same conditions as in the case of a vacancy occurring otherwise than by lapse of time.

6. It shall not be competent for the holder of the Reid Stewart Fellowship to hold any other Bursary, Scholarship, or Fellowship in this University, without the special leave of the Senate. The next competition will take place in October, 1902, and the examination will be the examination for Honours in the Group of Economic Science.

*Fellow*—[1] John Lochhead, M.A., 1899.

SANDFORD SCHOLARSHIP.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1904), and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

The subjects for April, 1904, will be:—Homer, *Iliad*, i.—xii.;

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[1] Vacant through lapse of time.

Æschylus, *Oresteia* ; Thucydides, v.—viii. ; Plato, *Symposium* and *Phaedrus* ; Unseen Translation ; Prose Composition, and Verse if any candidate offers it.

*Scholar*—John MacInnes, 1902.

(SIR WALTER) SCOTT SCHOLARSHIP—(See under head "Scott Bursaries," p. 305).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. Degree with Honours in the given department or departments for the year, and in addition to the examination abovementioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass." The Scholarship will be open to competition in October, 1902. The examination will be in Classics and in English Literature (not Language) from Chaucer downwards.

*Scholar*—[1] Mabel Atkinson, M.A., 1900.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely :—

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

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[1] Vacant through lapse of time.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus. and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellow-

ship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded ; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them ; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

*Present Fellow*—J. B. Baillie, M.A. (of Edinburgh University), 1899.

Snell Exhibitions.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years ; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned :—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made :—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided[1] as Undergraduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive ; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year ; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1902. The next examination will be held in April, 1903, on the same days and at the same hours as the Examinations for the Degree of M.A. with Honours, the English paper being taken on Saturday, 4th April, at 9 A.M.

The subjects of examination are as follows :

IN LATIN, GREEK, LOGIC, MORAL PHILOSOPHY, AND HISTORY.—The subjects of examination for the Degree of M.A. with Honours.

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[1] By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete winter session on not less than two of the classes in the curriculum for the Degree of Arts.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the four groups, viz.: Classics, Mental Philosophy, Mathematics and Natural Philosophy, and History; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time. Candidates who do not offer Classics will be required to show such a knowledge of Latin and Greek as to prove their ability to pass Responsions at Oxford.

*Exhibitioners*—Samuel F. H. Mackay, 1898; Archibald Main, 1899; George H. Stevenson, 1900; Peter Hately Waddell, 1901; Matthew Stewart, 1902.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

*Scholars for* 1901-2—Alexander Wood, Robert A. Houstoun.

JAMES WATT SCHOLARSHIP.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation:—1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who had completed, or who, at the end of the session in which the Prize fell to be awarded, should have completed a regular course of study in Languages and Philosophy, might be competitors. By Ordinance No. 93 of the Universities Commission (1889), issued on 15th February, 1895, and approved by Her Majesty in Council on 13th August, 1895, it was provided that the Watt Prize should be discontinued, that the funds should be allowed to accumulate for four years from the date of the Ordinance, and that thereafter a James Watt Scholarship in Engineering should be established.

The Scholarship is awarded by the Senate, on a special report by the Faculty of Science, to a Bachelor of Science of distinction of not more than two years' standing. It is tenable for two years, and the James Watt Scholar is required to pursue during his tenure special higher studies in the Engineering Laboratory, under the direction and to the satisfaction of the Professor.

*Scholar*—Alfred J. Wilson, 1901.

## 3.—*PRIZES.*

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1901-1902 will be found in the Degree and Prize List.

### INDEX.

| FOUNDATION. | NATURE OF PRIZE. | AWARDED FOR |
|---|---|---|
| Arnott, - - - - - | £25 and £15, | Examinations. |
| Brunton Memorial, - | £10, | Do. |
| Buchanan (3), - - - | Books, | Do. |
| Burnet, Lindsay, - - | Silver Medal. | Research. |
| Cleland, - - - - - | Gold Medal, | Examinations. |
| Cleland & Rae Wilson. | Four Gold Medals. | Do. |
| Cobden, - - - - - | £20 and Silver Medal (triennial), | Essay. |
| Coulter, - - - - - | Two at £5 each, | Essays. |
| Cowan, - - - - - | Three Gold Medals, | Examinations. |
| Cunninghame, - - - | Gold Medal, | Do. |
| Dickson Prize, - - - | Books, | Do. |
| Dobbie-Smith, - - - | Gold Medal (biennial), | Essay. |
| Dowanhill, - - - - | £20 and £10, | Elocution. |
| Ewing, - - - - - | Gold Medal (biennial), | Essay. |
| Findlater, - - - - - | £38, | Examination. |
| Gartmore, - - - - | Gold Medal (biennial), | Essay. |
| Gladstone Historical - | £21 (biennial), | Examination. |
| Gladstone Memorial, - | £5 in Books, | Do. |
| Harvey, George, - - | £14, | Do. |
| Henderson, - - - - | £21, | Essay. |
| Jamieson, - - - - - | £10, | Examination. |
| Jeffrey, - - - - - | Gold Medal, | Do. |
| Kirk Memorial, - - - | £14, | Do. |
| Logan, Thos., Memorial, | Gold Medal and £12, | Do. |
| Luke Historical, - - | £9 (biennial), | Do. |
| Macfarlan and Cook, - | £21, | Do. |
| Macleod, - - - - - | Gold Medal, | Do. |
| Muirhead, - - - - | Books, | Do. |
| Muirhead, G. Roger, - | £2 5s., | Do. |
| Nichol Memorial, - - | Books, | Do. |
| Reid, John, - - - - | £25, | Original Research. |
| Ross, Robert (2), - - | Med., books, or money, | Examinations. |
| Scott-Macfarlan, - - | Gold Medal, | Examination. |
| University, - - - - | Silver Medal, | Essay. |
| Walker (4), - - - - | Books, etc., | Examinations. |

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical studies ; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences ; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office) ; and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught ; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 4th October, 1902, in the Examination Hall, at 2 P.M. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 17th September.

Brunton Memorial Prize.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

Buchanan Prizes.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

Lindsay Burnet Silver Medal.—In 1901 the relatives of Mr. Lindsay Burnet, Engineer in Glasgow, who died on 14th March, 1895, founded this Medal to his memory, and also as a memorial of the respect which he entertained for Archibald Barr, D.Sc., Professor of Civil Engineering and Mechanics, and for his work in the University. The following are the regulations :—

The Medal shall be awarded to a student in regular attendance at the University for a thesis descriptive of a research upon a subject connected with The Properties or the Utilisation of Fuel, The Generation or Properties of Steam, The Principles of Thermodynamics, or The Operation of Heat Engines.

The research shall be conducted by the candidate in the Engineering Laboratories of the University, but in exceptional cases investigations requiring the use of machines or apparatus not provided in the Laboratory may be conducted in part elsewhere under such conditions as may in each case be sanctioned by the Professor of Engineering.

The Professor of Engineering may sanction the employment of such assistance, if any, as he may in each case deem necessary for the efficient carrying out of the research, and shall regulate the use of apparatus belonging to the University as regards the time when it shall be at the disposal of the candidate and the manner in which it may be employed.

The Senate shall from time to time issue regulations regarding the standing of students who shall be eligible to compete for the Medal, the form which the theses shall take, the date on or before which the theses must be submitted, and other details.

The Medal shall be awarded by the Senate after receiving a report from the Professor of Engineering and any assessor or assessors whom the Senate may have appointed to act with him.

The Senate may withhold the Medal in any year in which, in their opinion, no thesis of sufficient merit has been submitted.

The Professor of Engineering shall have the power to prescribe a particular subject or to limit the range of subjects upon which theses may be presented in any year ; and, farther, with a view to avoiding any undue interference with other researches, or with the general routine work of the Laboratory, he shall have power to prescribe the particular subject or range of subjects with which any individual candidate may deal.

The theses shall become the property of the University, and may be preserved in the Engineering Departmental Library or elsewhere as the Senate may direct, and the Senate may grant to students or others access to the theses under such conditions as they may from time to time prescribe. At all reasonable times the candidate shall have access to his own thesis for reference.

All results obtained in researches conducted in competition shall be subject, as regards rights of publication, to the general conditions applicable to work done in the University by research students and to any special regulations that may be made relating to work conducted in the Engineering Laboratory.

Should any new Chair or Chairs in Engineering Science be instituted in the University, the Professor whose laboratory courses are, in the opinion of the Senate, most closely identified with the general application of thermodynamics to engineering practice shall be deemed to be the Professor of Engineering for the purposes of this foundation.

CLELAND AND RAE WILSON GOLD MEDALS.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

Dr. William Rae Wilson of Kelvinbank, who died 2nd June, 1849, founded a Gold Medal to be bestowed upon the Divinity student who should produce the best Essay on the Life of Christ.

These foundations are now regulated by Ordinance No. 97 of the Universities Commission (1889). The Cleland Gold Medal, not exceeding ten guineas in value, is awarded to the most distinguished student in the class of Natural Philosophy in each year. The remainder of the free income of the Cleland Foundation is added to the total free income of the Rae Wilson Foundation, to provide four Gold Medals of equal value. These medals are awarded in each year as follows:—One to the most distinguished student in each of the classes of (1) Divinity, (2) Ecclesiastical History, (3) Hebrew and Semitic Languages, and (4) Divinity and Biblical Criticism. In the event of there being no student of sufficient distinction in any of these classes, the proportion of the income for that year may be applied towards the promotion of theological study in such manner as the Senate may decide.

Cobden Prize.—This prize of the value of £20, together with a silver medal, will be offered by the Cobden Club, London, every third year for an essay on some subject connected with political economy. The subject is to be fixed by the two adjudicators, one of whom is appointed by the University and the other by the donors. Members of the University of not more than six years' standing may be competitors. The prize will be awarded in 1905 and thereafter triennially.

Coulter Prizes.—In 1787 Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all matriculated students of the University.

Cowan Gold Medals.—In 1836 Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1902. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1901-1902.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following :—(*a*) Herodotus—two books ; (*b*) Thucydides—two books ; (*c*) Plato—two dialogues, or two books of the *Republic ;* (*d*) Aristotle—two books of the *Ethics*, of the *Politics*, or of the *Rhetoric.*

5. Any member of the Greek Class for session 1902-3 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal ; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DICKSON PRIZE.—In 1895, when the late Professor Dickson retired from the Chair of Divinity, his former students presented him with a testimonial consisting of silver plate and a cheque for £120. This sum was handed over by Dr. Dickson to the University Court, that the free annual income might be applied in the form of a prize of serviceable books to accompany the gold medal given to the most distinguished student of the year in the class of Divinity. In accordance with the wish of the subscribers the prize has been called the Dickson Prize.

DOBBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded ; the subject of competition—

which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The next competition to be on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and each essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 30th September, 1902.

DOWANHILL PRIZES.—Two prizes, one of £20, and the other of £10, for "Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865 by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.[1]

The above foundation is in memory of the late Mr. James Buchanan of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828 James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations have been adopted by the Senate:—

1. The Findlater Scholarship shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

The next competition will take place in October, 1902, and April, 1903. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 15th October, 1902.

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[1] See note under Faculty of Theology, *supra*.

Gartmore Gold Medal.—In 1788 Mr. Robert Graham of Gartmore presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The founder directed that the surpluses should be accumulated till a capital was formed sufficient to found a Bursary.—See Gartmore Bursary, p. 271.

Gladstone Historical Prize.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The prize shall be given for the best examination in English History.
2. The examination shall be held biennially.
3. The value of the Prize shall be Twenty Guineas.
4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The next competition will take place in January, 1904. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1903.

Gladstone Memorial Prize.—In November, 1899, the Committee of the Gladstone Memorial Fund resolved to devote the revenue accruing from the surplus of the Fund to the establishment of Gladstone Memorial Prizes to be given in Books at the Universities of Oxford, Cambridge, and London, at the Scottish Universities, and the University Colleges in Great Britain, for special proficiency in History, Political Science, and Economics. In this University the prize, in value Five Pounds, will be awarded annually. Either graduates of this University who have taken the degree of M.A. with Honours, or students presenting themselves for examination for the Degree of M.A. with Honours in Economic Science, may be candidates; but no student shall be eligible after the expiration of more than six winter sessions from the time of his or her first entering a class qualifying for the Degree of M.A., and no student who has once obtained the prize may compete a second time. The subjects of examination shall be the same as those prescribed for Honours in Economic Science, and the examination shall be held at the same time as the autumn examination for Degrees with Honours in Economic Science. The Prize is awarded by the Senate on the report of the Examiners for Degrees, and it is competent for the Senate to award it to the holder of a Fellowship, or Scholarship, or Bursary. The Prize will be open to competition in October, 1902.

George Harvey Prize.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey of No. 9 Park Quadrant, Glasgow. Present annual value £14, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

Henderson Prize.—In 1850 Mr. John Henderson of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath. The Universities Commission (1889), by Ordinance No. 101, altered the conditions and directions affecting this prize. It is now to be awarded for the best essay on a subject to be fixed by the Faculty of Divinity, provided always that in every third year at least, the subject shall relate to the Divine authority and practical value and influence of the Sabbath. The competition is to be open to Masters of Arts of not more than five years' standing, as well as to matriculated students of the University.

Jamieson Prize.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations have been adopted by the Senate :—

1. The Jamieson Prize shall be awarded annually by competition.
2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.
3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.
4. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in October, 1902, and April, 1903. Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 15th October, 1902.

Jeffrey Gold Medal.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal and continued to do so annually.

In 1849 Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

KIRK MEMORIAL PRIZE.—A sum of £402 was collected in 1893 by various friends of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland, for the purpose of founding a prize in his name, in connection with the Naval Architecture Class in the University. The free annual income of the foundation is awarded annually as a prize. The competition is open to students who have, in the session of competition, attended the Senior Class of Naval Architecture, and who are completing the Final Science Examination under Ordinance No. 23, Glasgow No. 2, embracing (*a*) Naval Architecture with Marine Engineering, and (*b*) Practical Work in Ship and Marine Engineering Drawing, the award being determined by the proficiency shown in (*a*) and (*b*). Should two or more candidates be reported equal, the Senate may divide the Prize, or prescribe a further examination. The subscribers have given the Senate power to convert this Prize into a Bursary, should it be found expedient or advantageous to do so at any future time.

LIVINGSTONE GOLD MEDAL.—In 1897 Mr. Allan Wyon, Chief Engraver of Her Majesty's Seals, London, offered to present annually as a memorial of David Livingstone, LL.D., the missionary explorer in Africa, a Gold Medal, between £8 and £9 in value, to the matriculated student of either sex who should write the best essay on some subject connected with Christian Missions to the Heathen.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in April to the graduate in Arts of the preceding year who obtained the highest marks in the Degree Examinations.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient

History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *vivâ voce* questions ; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1903. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1901-2 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1902.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D. of this University, and Professor George Cook, D.D. of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

MACLEOD MEDAL.—In 1895 Lady Macleod instituted this Gold Medal in memory of her husband, Sir George Husband Baird Macleod, M.D., LL.D., Regius Professor of Surgery in this University from 1869 to 1892. The competition is open only to those who have attended the classes of Systematic and Operative Surgery taught by the Regius Professor of Surgery in the University, and women students are not eligible. The Medal is awarded yearly to the student who most distinguishes himself in the work (written, oral, and practical) of these classes.

MUIRHEAD PRIZES.—In 1776 Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

GEORGE ROGER MUIRHEAD PRIZE.—In 1896 a sum of £100 was bequeathed to the University by Mrs. Elizabeth Lockhart Roger or Muirhead, Glasgow, to found a prize in the Chemistry class in memory of her son, George Roger Muirhead, who studied Chemistry in this University. The free annual income is paid annually to the medallist of the Chemistry class for the year.

Nichol Memorial Prize.—In 1895 Mrs. Jack presented the University with the sum of £150 for the purpose of founding a prize, to be called the "Nichol Memorial Prize," in memory of her brother, John Nichol, LL.D., Professor of English Language and Literature in this University from 1862 till 1889, who died in London on 11th October, 1894, and especially in commemoration of the active interest which he took in the teaching of English Literature to women in Glasgow and elsewhere. The free income of the fund is applied annually to providing a first prize for the English Literature Class in Queen Margaret College.

Rae Wilson Gold Medal.—(See Cleland and Rae Wilson, p. 342.)

John Reid Prize.—A Prize of the value of £25 was founded in 1882 by Miss Mary Reid, Renfrew Street, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. The competition is open to registered students of medicine of not less than two years' standing; and to qualified medical men of not more than two years' standing, who (1) are still attached as *bonâ fide* students to one of the Glasgow Medical Schools, who (2) are not engaged in practice, and who (3) undertake to give up the prize if they enter on practice while holding it. All candidates are required to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within three years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurll, jun., writer, 157 St. Vincent Street, Glasgow.

Robert Ross Prize.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, "to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe."

Scott-Macfarlan Gold Medal.—Founded in 1870 by Miss

Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.S.S.L and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations; the other two by votes of the class.

## 4.—*LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION* 1902-3.

## A.—FACULTY OF ARTS.

### 1.—BURSARIES.

The following is a summary of the principal provisions of Ordinance No. 57[1] of the Universities Commission (1889) relating to the Bursary competition:—

The subjects of the examination for open Bursaries in Arts of the first year shall be the subjects prescribed for the Arts Preliminary, of which subjects candidates may select not more than five. Candidates who select Latin, Greek, or Mathematics, must take the papers of the higher standard in those subjects. In determining the marks to be assigned to the several subjects of examination,

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[1] The full text of this ordinance is printed at pp. 243-247.

English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senate may from time to time prescribe.

No Candidate shall, except as hereinafter provided, obtain an open Bursary in Arts who shall not have passed the Preliminary Examination in Arts; provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to an open Bursary in Arts a Candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the second Preliminary Examination after the date of his admission as Bursar. [This power has now lapsed. May, 1902.]

No student who has during a winter or summer session attended in any Scottish University any class qualifying in his case for graduation in Arts or Science, shall be eligible to compete for Bursaries of the first year in Arts or Science.

Candidates for Bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts, and no Bursary shall, except as hereinafter provided, be awarded to any Candidate who shall not have passed the Preliminary Examination in Arts: provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to a Bursary in Arts not awarded by open competition a Candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as Bursar.

*N.B.*—For the Bursaries open to women students see pp. 247-250.

### FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1. *Black Bursary*, annual value £18, tenable for four years—open.
2. *Buchanan Bursary*, annual value £13, tenable for three years —open.
3. *Forfar Bursary*, annual value £36, tenable for four years—open.
4. *General Council Bursary*, annual value £20, tenable for three years —open.
5. *Hastie Bursary*, annual value £25, tenable for four years—open.
6. *Leyden Bursary*, annual value £13, tenable for three years—open.
7. *King William's Bursary*, annual value £15, tenable for three years—open.

8, 9, 10, 11, 12, and 13. *Six John Clark (Mile-End) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.

14. *Barbour Kilbarchan Bursary*, annual value about £20, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

15, 16, and 17. *Three Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Free Church.

18. *Brand Bursary*, annual value £24, tenable for four years, for students preparing for the Ministry of the United Free Church.

19. *Browne (Ayrshire) Bursary*, annual value about £22, tenable for four years, for natives of Ayrshire, or those who have been educated for not less than four years in a school in Ayrshire.

20. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

21. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

22. *Craig Bursary*, annual value £25, tenable for four years. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

23. *Merchants' House Bursary*, annual value £25, tenable for four years. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

24*a*. *James Ewing Entrance Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

24*b*. *Forrester Bursary*, annual value about £23, tenable for three years, for natives of Lecropt or Dunblane Parish. Apply to Mr. A. B. Barty, Writer, Dunblane, before the first day of September.

25 and 26. *Two Fullarton of Overton Bursaries*, annual value £22 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects for Examination—Latin, Elementary Mathematics, and English.

27. *Hamilton Educational Trust Bursary*, annual value £15, tenable for three years, open to pupils attending public or State-aided schools in the Burgh and Parish of Hamilton. Apply to Mr. Patrick Keith, Writer, Hamilton, before the first day of September.

28. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September.

29 and 30. *Two Glasgow Highland Society's Bursaries*, annual value £20 each, tenable for four years, for students of Highland descent. Apply to Mr. R. Hope Robertson, 58 St. Vincent Street, on or before the fifteenth day of August.

31 and 32. *Two Glasgow City Educational Endowments Bursaries*,

annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

33, 34, 35, 36, and 37. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended for at least two years immediately preceding the competition, and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

38. *Alexander Laing Bursary*, annual value £20, tenable for three years, with preference, *cœteris paribus*, to natives of Brechin.

39 and 40. *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for students of either sex who have been educated for at least three years in a school or schools in Stirlingshire. Apply to Mr. William Jenkins, Writer, Denny, before the first day of September.

41*a* and 41*b*. *Two M'Crie Bursaries*, annual value £25 each, tenable for four years, subject to the conditions noted at p. 288. Apply to A. G. Young, Esq., Town Clerk, Ayr, before the first day of September.

42. *M'Culloch Bursary*, annual value £17, tenable for four years, for students educated not less than three years at a school or schools in Greenock.

43, 44, 45, and 46. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students of either sex from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to William Mitchell, LL.D., 134 Wellington Street, Glasgow, before the first day of September.

47. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

48 and 49. *Two Pratt Bursaries*, annual value £20 each, tenable for four years, for students from the parishes of Wiston, Roberton, or Lamington. Apply to Messrs. MacLean, Fyfe & MacLean, 115 St. Vincent Street, before the first day of September. [Tenable in any Faculty.]

50. *Stevenson of Dalry Bursary*, annual value £32, tenable for four years, for students preparing for the ministry of the Church of Scotland.

51. *William Whyte Bursary*, annual value £25, tenable for four years, open to students who have attended and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 194 Ingram Street, on or before the first day of September. [Tenable also in Law or Medicine.]

52. *James Thomson Philosophical Bursary*, annual value £9, tenable for two years. The subjects of examination are the same as the English Literature subjects for the Lorimer Bursaries, Nos. 59 and 60.

53, 54, and 55. *Three James A. Paterson Bursaries*, annual value £35, £25, and £20 respectively, tenable for three years, for students preparing for the Ministry of the United Free Church. The subjects of examination are Greek and Hebrew, as detailed at page 301.

### FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 3, 4, 6, 18, 25, 26, 50, 52, 53, 54, 55, in the preceding list.

56. *Park General Council*, annual value £20, tenable for two years—open.

57 and 58. *Two Lorimer Bursaries*, annual value £19, tenable for three years. The examination will take place along with the Arts Preliminary Examination in Mathematics, but may embrace higher papers.

59 and 60. *Two Lorimer Bursaries*, annual value £19, tenable for three years. Subjects of examination—1. *Logic*: (*a*) Descartes, *Meditations* (Veitch's translation); (*b*) Ferrier, *Lectures on Greek Philosophy*, the Pre-Socratic period. 2. *English Literature*: (*a*) Shakespeare's *As You Like It*; (*b*) Tennyson's *Idylls of the King*.

### FOR STUDENTS IN ARTS WITHOUT RESTRICTION TO A PARTICULAR SESSION.

61. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in German.

62. *Muir Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1903-4, 1904-5. The appointment will be determined by the results of the written examinations passed in the course of the session 1902-3 by the public students of the Ordinary Class of Mathematics.

63. *Muir Senior Bursary in Mathematics*, annual value £18, tenable for session 1903-4. The appointment will be determined by the results of the written examinations passed in the course of the session 1902-3 by the public students of the Intermediate Honours Mathematical Class.

64. *James Ferguson Bursary*, annual value £85, tenable for two years. Preference, *cæteris paribus*, to natives of Lesmahagow or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for Honours in Mental Philosophy.

### FOR STUDENTS IN ARTS, OR LAW, OR MEDICINE.

65. *Macdonald Bursary*, annual value £15, tenable for four years, for miners under the age of 21 years. Examination in writing, arithmetic, geography, grammar, and history. For the *William Whyte Bursary*, see No. 51.

## 2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

66. *Armagh Bursary in Classics*, annual value £45, tenable for three years in Theology, Law, or Medicine. Open to students who are presenting themselves for the final examination for the degree of M.A. with Honours in Classics.

67. *Eglinton Fellowship in Classics*, annual value £65, tenable for three years. Open to Glasgow Masters of Arts who have graduated in April or October, 1902.

68. *Scott Scholarship*, annual value £80, tenable for two years. Open to Glasgow Masters of Arts. Examination in Classics and in English Literature (not Language) from Chaucer downwards.

69. *George A. Clark Scholarship in Mental Philosophy*, annual value about £168, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in Mental Philosophy, but no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. degree.

70. *Metcalfe Fellowship*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts, with Honours in Mathematics and Natural Philosophy, of not more than three years' standing.

71. *John Clark (Mile-End) Scholarship in Semitic Languages* annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

72. *John Clark (Mile-End) Scholarship in English*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

73. *John Clark (Mile-End) Scholarship in Modern Languages*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

74. *Reid Stewart Fellowship*, annual value £50, tenable for three years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in Economic Science. See p. 331.

75. *Gladstone Memorial Prize* of books to the value of £5 is open to graduates of this University who have taken the degree of M.A. with Honours or to students presenting themselves in October, 1902, for examination for the Degree of M.A. with Honours in Economic Science, but no one whose Arts course began before session 1896-7 is eligible. See p. 346.

76. *Snell Exhibition*, annual value about £133, tenable for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

77. *Luke Historical Prize* of £10, open to all students who have attended, during session 1901-2, any Greek or Latin class.

78. *Thomas Logan Memorial Medal and Prize* of £12 will be awarded in April, 1903, to the graduate in Arts of the year 1902 who shall have obtained the highest marks in the Degree examinations.

### DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 51 and 56 in the above list will commence on Friday, 26th September, at 9 a.m. The examination papers will be given in the following order, viz. :—

| | | | | |
|---|---|---|---|---|
| On Friday, | 26th | September, | 9—11 a.m., | English (1st paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Higher Latin (1st paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Lower Latin. |
| On Saturday, | 27th | ,, | 9—11 a.m., | English (2nd paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Intermediate and Higher Mathematics (1st paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Lower Greek. |
| On Monday, | 29th | ,, | 9—11 a.m., | Higher Latin (2nd paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Intermediate and Higher Mathematics (2nd paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Lower Mathematics. |
| On Tuesday, | 30th | September, | 9—11 a.m., | Higher Greek (1st paper). |
| ,, | ,, | ,, | 12— 1.30 p.m., | French (1st paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Dynamics. |
| On Wednesday, | 1st | October, | 9—11 a.m., | Higher Greek (2nd paper). |
| ,, | ,, | ,, | 12— 2 p.m., | French (2nd paper). |
| ,, | ,, | ,, | 3— 4.30 p.m., | German (1st paper). |
| On Thursday, | 2nd | October, | 9—11 a.m., | German (2nd paper). |
| ,, | ,, | ,, | 12— 1.30 p.m., | Italian (1st paper). |
| ,, | ,, | ,, | 12— 2 p.m., | German (additional paper). |
| ,, | ,, | ,, | 3— 5 p.m., | Italian (2nd paper). |
| ,, | ,, | ,, | 3— 5 p.m., | French (additional paper). |
| On Friday, | 3rd | ,, | 9—11 a.m., | Mathematics (additional paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Latin (additional paper). |
| ,, | ,, | ,, | 3— 5 p.m. | Greek (additional paper). |
| On Saturday, | 4th | ,, | 9—11 a.m., | English (additional paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Dynamics (additional paper). |

The examination for Bursary No. 52 will be held on Saturday, 4th Oct., at 2 p.m.; for Bursaries Nos. 53 to 55, on Tuesday, 21st Oct., at 9 a.m., and Wednesday, 22nd Oct., at 2 p.m. ; for Bursaries Nos. 57 and 58, on Saturday, 27th Sept., at 12 noon, Monday, 29th Sept., at 12 noon, and Friday, 3rd October, at 9 a.m.; for Bursaries Nos. 59 and 60, on Wednesday, 1st October, at 2 p.m., and on Saturday, 4th October, at 2 p.m. ; for Bursary No. 61, on Wednesday, 1st October, at 3 p.m., and Thursday, 2nd October, at 9 a.m. and 12 noon : the examinations for the Bursary No. 65 will be held in October, on days to be announced hereafter.

The examinations for the Bursaries, Scholarships, and Fellowships No. 64 and Nos. 66 to 75 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A. in October, 1902; for No. 76 along with the examinations for Honours, in March and April, 1903, the English paper being taken on Saturday, 4th April, at 9 a.m.; and for the Prize No. 77 in January, 1903.

### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 51 inclusive, Nos. 53 to 58 inclusive, and Nos. 61 and 65 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 8th

September; and for Bursaries Nos. 52, 59, 60, and 64, not later than Wednesday, 17th September. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursaries Nos. 22 to 24*a* must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September; for No. 24*b*, to Mr. A. B. Barty, Writer, Dunblane, before the first day of September; for No. 27, to Mr. Patrick Keith, Writer, Hamilton, before the first day of September; for No. 28, to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September; for Nos. 29 and 30, to Mr. R. Hope Robertson, 58 St. Vincent Street, before the fifteenth day of August; for Nos. 31 to 37, to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September; for Nos. 39 and 40, to Mr. William Jenkins, Writer, Denny, before the first day of September; for Nos. 41*a* and 41*b*, to Mr. A. G. Young, Town Clerk, Ayr, before the first day of September; for Nos. 43 to 46, to William Mitchell, LL.D., 134 Wellington Street, before the first day of September; for Nos. 48 and 49, to Messrs. MacLean, Fyfe and MacLean, 115 St. Vincent Street, before the first day of September; and for No. 51, to Messrs. Hill & Hoggan, 194 Ingram Street, before the first day of September.

Candidates for the Fellowships, etc., Nos. 66 to 75 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 17th September; for No. 76, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's office for the purpose, not later than the 1st December, 1902; and for No. 77 before 1st December, 1902.

## B.—FACULTY OF SCIENCE.

*Open to Competition during Session* 1902-1903.

1. *Donald Cuthbertson Bursary*, annual value £32, tenable for three years, open to students of Pure Science.

2 and 3. *Two Strang Bursaries*, annual value £20, tenable for three years. Open to students of Engineering Science.

4 and 5. *Two Agricultural College Bursaries*, annual value £50 and £40, tenable for three years, for students of Agriculture.

6 and 7. *Two Lorimer Bursaries in Mathematics*—see Nos. 57 and 58 under Faculty of Arts.

8 and 9. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the class of Chemistry or of Intermediate Honours Mathematics.

10. *Lloyd's Register Scholarship*, annual value £50, tenable for three years. Open to candidates intending to become students of Naval Architecture whose age does not exceed 23 years.

11. *Malcolm Kerr Bursary*, annual value £20, tenable for three years. The subjects of examination are in Chemistry, and are those for the Final Science Examination for B.Sc.

12. *Mackinnon Scholarship in Geology*, £50 in value, tenable for one year, for proficiency in Geology—open to all matriculated students.

13 and 14. *Muir Bursaries in Mathematics*—see Nos. 62 and 63 under Faculty of Arts.

15 and 16. *Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £12 10s., tenable for session 1903-4.

17. *George Young Bursary*, annual value £35, tenable for one year, for students in the class of Civil Engineering. To be awarded in April, 1903, to the eligible candidate with the best record in the First Science Examination.

18. *Shipwrights' Company Bursary*, annual value £50, tenable for three years, for a student of Naval Architecture.

19. *Kirk Memorial Prize* of £14 for students completing Final Science Examination for B.Sc. on the side of Naval Architecture. See page 348.

20. *Robert Donaldson Scholarship in Biology*, annual value £64, tenable for two years, for Bachelors of Science of this University.

The examinations for the Bursaries Nos. 1 to 5 will be held at the same time as the Arts and Science Preliminary Examinations in September and October, 1902; for Nos. 6 and 7 on Saturday, 27th September, at 12 noon, Monday, 29th September, at 12 noon, and Friday, 3rd October at 9 a.m.; for Nos. 8 to 10 on Friday, 26th September, and Saturday 27th September, at 3 p.m. on each day, and on Friday, 3rd October, at 9 a.m. and 2 p.m.; for No. 11 on Monday, 29th September, at 3 p.m.; and for No. 12 on Saturday, 27th September, at 1 p.m.

Names of Competitors to be given in to the Assistant Clerk (Matriculation Office), for Nos. 1 to 7 on 8th September, for Nos. 8 to 12 on 17th September, and for Nos. 15 to 17 on 12th March, 1903.

For the *Denny Bursary*, *the Malcolm M'Ewen Bursary*, the *Taylor Bursaries*, the *James Ferguson Bursary*, the 1851 *Exhibition Science Scholarships*, the *Dobbie Smith Gold Medal*, the *George Harvey Prize*, the *G. R. Muirhead Prize*, and the *Walker Prizes*, see pages 264, 289, 309, 267, 323, 344, 347, 349, and 351 respectively.

## C.—FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £31, tenable for one year. Open to medical students of either sex who have attended the Lectures on Insanity.

2 and 3. *Two Glasgow Highland Society Bursaries*, annual value of each £25, tenable for five years, for students of Highland descent. Apply to Mr. R. Hope Robertson, 58 St. Vincent Street, on or before 15th August.

4. *John Macfarlane Bursary*, annual value about £40, tenable for three years. Open to Medical students entering on their second winter session.

5 and 6. *Two Lorimer Bursaries*, annual value £19, tenable for three years. Open to medical students entering on their second winter session.

7. *Rainy Bursary*, annual value £20, tenable for two years. Open to students entering on their fourth session of medical study. See page 304.

8 and 9. *Two James A. Paterson Bursaries*, annual value £35 and £25 respectively, tenable for four years. Open to students entering on their first or second session of medical study. Examination in Mathematics and Dynamics.

10. *John Monteith Bursary*, annual value about £21, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in March and October, 1902.

11. *Andrew Weir Bursary*, annual value £15, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

12. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

13. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

14. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

For the *Denny*, the *Hutchesons' Educational Trust*, the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Medicine, see Nos. 21, 33 to 37, 51, 65, 66, and 64, under Faculty of Arts.

### DATES OF EXAMINATIONS.

The examinations for the Bursary No. 1 in the above list will be held in June, for Nos. 2 and 3, at the same time as the Medical Preliminary; for Nos. 4 to 6 on Monday, 29th September, at 12.30 p.m. and 3 p.m., and on Tuesday, 30th September, at 10 a.m; for Nos. 8 and 9, on Saturday, 27th September, at 12 noon; Monday, 29th September, at 12 noon; and Friday, 3rd October, at 9 a.m.; and for the Prizes Nos. 12 and 13 on Saturday, 4th October, at 2 p.m.

### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st June; for Bursaries Nos. 2 to 9, not later than 8th September; and for Prizes 12 and 13, not later than 17th September.

## D.—FACULTY OF LAW.

1. *Merchants' House Bursary*, annual value £25, tenable for three years. Open to students entering on their first session of attendance on the classes in the Faculty of Law. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 8th September, and also to the Clerk of the Merchants' House, not later than 1st September.

2. *Major Young's Fund Bursary*, annual value £22, tenable for six years, open to students of the first year in Arts who intend to study for a degree in Law. Names of candidates to be given in not later than 8th September.

3. *Major Young's Fund Bursary*, annual value £22, tenable for two years, open to students of the first year in Law. Names of candidates to be given in not later than 8th September.

Competitors for Nos. 1, 2, and 3 are required to attend the Arts Preliminary and Bursary Examination. For subjects and times see p. 357.

4. *Walkinshaw Young Bursary*, annual value £16, tenable for two years, open to students who, since 1st December, 1900, have at an examination in Arts for the degree of B.L. passed in two Arts subjects, or have at one examination passed in any two subjects for the degree of M.A. Applications to be lodged with the Clerk of Senate on or before 1st December, 1902.

5. *Andrew Cunninghame Scholarship*, annual value about £34, tenable for two years, will be awarded in November, 1902, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Conveyancing.

For the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Law, see Nos. 51, 65, 66, and 64 under Faculty of Arts.

## E.—FACULTY OF THEOLOGY.

*Open to Competition during Session* 1902-3.

1. *Black Bursary*, annual value £36, tenable for three years. Open to students of Theology of the first year, qualified as specified at p. 255.

2 and 3. *Two Brown or Ettles Bursaries*, annual value £25 each, tenable for three years. Open to students of Theology of the first year who have passed all the examinations for graduation in Arts, with a preference, *cæteris paribus*, to such as can speak Gaelic.

4 and 5. *Two Lorimer Bursaries*, annual value £19 each, tenable for three years. Open to students entering the Divinity Hall.

6. *Lumsden Bursary*, annual value £15, tenable for four years. Open to students of Divinity of the first year, with a preference to the sons of members, or of deceased members, of the Stationers' Company of Glasgow.

7. *John Ross, Jun., Bursary*, annual value £30, tenable for three years. Open to students of Divinity of the first year preparing for the ministry of the Church of Scotland.

8. *King William's Bursary*, annual value £20, tenable for three years. Open to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study in the University for graduation in Divinity.

9. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, not later than 15th October.

10. *Black Theological Fellowship*, annual value about £126, tenable for one year. Open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1903.

11. *The Findlater Scholarship Prize*, value about £38 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1903.

12. *The Jamieson Prize*, value about £10 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1903.

13. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

14 and 15. *Dowanhill Prizes*, one of £20, and the other of £10, for Elocution. Open to students of Divinity of the third year.

For the *Armagh* and the *James Ferguson Bursaries*, also tenable by students of Divinity, see Nos. 66 and 64 under Faculty of Arts.

### DATES OF EXAMINATIONS.

The examinations for Nos. 1 to 9 inclusive, in the above list, will be held on Tuesday, 21st October, and Wednesday, 22nd October, at 9 a.m. each day; and for Nos. 10 to 12, on Tuesday, 21st October, Wednesday, 22nd October, Thursday, 2nd April, and Friday, 3rd April, at 9 a.m. each day.

### SUBJECTS OF EXAMINATION.

Candidates for Bursaries Nos. 1 to 9 inclusive may select any seven out of the nine subjects in the following list:—

LATIN.—Horace, *Odes*, Book iii.; Translation from English into Latin.

GREEK.—The Gospel according to Luke.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Muirhead, *Elements of Ethics*.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Deschanel, *Physics*, Part II.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter XII. A short essay will be prescribed.

HEBREW.—Book of Genesis.

HISTORY.—European History in the Sixteenth Century.

The subjects of examination for Nos. 10, 11, 12 are the same as for the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 13 for Session 1902-3 are as follows:—

GREEK.—Epistles to Timothy.

DIVINITY.—Biblical Theology.—The Pastoral Epistles.

HEBREW.—The Book of Jeremiah.

CHURCH HISTORY.—History of the Western Church from 1303 to 1517.

MORAL PHILOSOPHY.—Butler, *Three Sermons on Human Nature.*

### DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 12 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 15th October, 1902; for the Prize No. 13 to the Professor of Divinity, not later than 1st November, 1902; and for the Prizes Nos. 14 and 15, to the Professor of Divinity, not later than 17th March, 1903.

## 5.—PATRONAGE BURSARIES, 1902-3.

### A.—FACULTY OF ARTS.

Appointments to the following Bursaries in the gift of Patrons, including bodies corporate and not corporate, fall to be made before the opening of session 1902-3. Candidates are required to present themselves for the Arts Preliminary Examinations, and for this purpose their names must be given in to the Assistant Clerk (Matriculation Office), on or before 8th September.

1. *Ardkinglass Bursary*, see page 253.
2 and 3. *Two Dundonald Bursaries*, see page 265.
4. *Hamilton Bursary*, see page 275.
5. *Hyndford and Ross Bursary*, see page 280.
6. *Leadbetter Bursary*, see page 283.
7. *Smith Bursary*, see page 307. [Any Faculty.]
8. *Williams Bursary*, see p. 312.

### B.—FACULTY OF THEOLOGY.

1. *Boyd and Sanders Bursary*, see page 255.
2. *Boyd and Wilson Bursary*, see page 256.
3 and 4. *Two Dundonald Bursaries*, see page 265.
5. *Hamilton Bursary*, see page 275.

## 6.—*UNIVERSITY PRIZE ESSAYS.*

### For Session 1902-3.

1. In Mental Philosophy, the University Silver Medal, for the best essay on "The Ethics of International Relations." All students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1901-2 or 1902-3, may be competitors.

2. The Ewing Gold Medal, for the best essay on "James, Marquis of Montrose." All matriculated students of the University in session 1902-3 may be competitors.

3. A Coulter Prize of Five Pounds, for the best essay on "The Theology of Melanchthon."

4. A Coulter Prize of Five Pounds, for the best essay on "Agathon: a Study of the Surviving Fragments and an Estimate of his Place in Greek Literature."

For the Coulter Prizes all matriculated students of the University in session 1902-3 may be competitors.

5. The Henderson Prize of Twenty Guineas, for the best "Critical Examination and Estimate of Butler's *Analogy of Religion.*" All matriculated students of the University in session 1902-3, and all Masters of Arts who graduated in November, 1897, or thereafter, may be competitors.

6. The Livingstone Gold Medal, for the best essay on "The Influence of the Moravian Brotherhood on Missions." All matriculated students of session 1902-3 may be competitors.

7. The Dobbie-Smith Gold Medal, for the best essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All matriculated students of session 1901-1902 may be competitors. Essays must be given in by 30th September, 1902.

The essays, with the exception noted above (No. 7), must be given in to the Principal on or before Friday, 31st October, 1902, after which day none can be received. Each must be distinguished by two mottoes, and accompanied by a sealed letter bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the essay is entirely of his own composition. All quotations in the essays must be carefully marked and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the prize for any subject, if none of the essays on that subject reaches a sufficiently high standard of merit.

### GARTMORE GOLD MEDAL IN SESSION 1903-4.

The subject for the essay in the competition for the Gartmore Gold Medal, open to matriculated students in session 1903-4, will be—"Theories of Political Liberty in the Eighteenth Century."

# X.—HONOURS LIST.

## NAMES OF GRADUATES WITH HONOURS SINCE THE YEAR 1827.

### BACHELORS OF ARTS (B.A.).

| | | | Honourable Distinction. | Highest Distinction. |
|---|---|---|---|---|
| 1827 | [1] Alfred Day, . . . | England, | . . . . . | Classics.<br>Mental Philosophy. |
| 1831 | James Halley, . . | Scotland, | . . . . . | Classics.<br>Mental Philosophy. |
| 1838 | William Makellar, . | ,, | Classics. | |
| ,, | Francis Tucker, . . | England, | Classics. | |
| 1840 | [1] John Daniel Morell, . | ,, | Classics.<br>Mental Philosophy. | |
| 1842 | [1] Nathaniel Haycroft, . | ,, | Classics.<br>Mental Philosophy. | |
| 1843 | [1] David M'Lauchlan, . | Scotland, | Classics.<br>Mental Philosophy. | |
| 1852 | Samuel Crusha Sarjant, | England, | . . . . . | Classics.<br>Mental Philosophy. |
| 1856 | [1] Joseph David Everett, . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | David Johnston, . . . | ,, | Mental Philosophy. | |
| 1857 | Wm. Thomson Johnston, | Scotland, | . . . . . | Classics. |
| ,, | Andrew Moody, . . | ,, | Mental Philosophy. | |
| ,, | [1] William Ralph Pattison, | ,, | Classics.<br>Mental Philosophy. | |
| 1858 | John MacLeod, . . . | ,, | . . . . . | Mental Philosophy. |
| ,, | [2] Peter Sinclair Menzies, . | ,, | Classics. | |
| 1859 | [1] George Porter, . . . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | [1] Joseph Gardner, . . | ,, | Mental Philosophy. | |
| 1860 | [1] Richard Vary Campbell, | ,, | . . . . . | Mental Philosophy. |
| ,, | [1] Daniel Munro, . . . | ,, | Classics. | |
| 1861 | [1] John M'Lean, . . . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | [1] Thomas Carruthers, . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | [1] William Stewart, . . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | [3] David Thomas, . . . | ,, | Mental Philosophy. | |
| ,, | [1] George Matheson, . . | ,, | Mental Philosophy. | |
| ,, | [1] Henry William Bell, . | India, | Mental Philosophy. | |
| ,, | [1] Thomas Robinson, . | England, | Mental Philosophy. | |

[1] Graduated M.A. in the following year. [2] Graduated M.A. three years later.
[3] Graduated M.A. two years later.

## MASTERS OF ARTS (M.A.).

| | | | Honourable Distinction. | Highest Distinction. |
|---|---|---|---|---|
| 1827 | George Samuel Evans, | England, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | William Cooper, | Scotland, | Classics.<br>Mental Philosophy. | |
| 1828 | William Acworth, | England, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | Samuel Macurdy Greer, | Ireland, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | James Rankine, | Scotland, | Classics.<br>Mental Philosophy. | |
| ,, | William Baird, | ,, | Classics.<br>Mental Philosophy. | |
| ,, | John Reid, | England, | Physical Science. | |
| ,, | Alexander Ure, | Scotland, | Physical Science. | |
| 1831 | David L. Arnot, | ,, | . . . . . | Classics. |
| ,, | John Jenkins, | Wales, | Classics. | |
| ,, | Robert Cotton Mather, | England, | Classics. | |
| ,, | Neil M'Michael, | Scotland, | Physical Science. | |
| 1832 | Andrew Borland Parker, | ,, | . . . . . | Classics. |
| 1836 | John Cunningham, | ,, | . . . . . | Physical Science. |
| ,, | William Fulton, | ,, | Classics.<br>Mental Philosophy. | |
| 1837 | Richard Shaen, | England, | Physical Science. | |
| ,, | Thomas Elliot Richardson, | ,, | Physical Science. | |
| ,, | John Blair, | Ireland, | Physical Science. | |
| ,, | William Cuthell, | Scotland, | Physical Science. | |
| 1840 | Duncan Harkness Weir, | ,, | Physical Science. | |
| ,, | James Thomson, | Ireland, | Physical Science. | |
| ,, | John Buchanan, | Scotland, | Physical Science. | |
| 1841 | William Arthur Jones, | Wales, | Classics.<br>Mental Philosophy. | |
| 1842 | Alexander Grierson, | Scotland, | Physical Science. | |
| ,, | John Davies, | England, | Classics.<br>Mental Philosophy. | |
| 1843 | John Trafford, | ,, | Classics.<br>Mental Philosophy. | |
| ,, | David Duff, | Scotland, | Physical Science. | |
| 1844 | John Morgan, | ,, | Physical Science. | |
| ,, | John Thomson, | Ireland, | Physical Science. | |
| ,, | William Turnbull Ker, | Scotland, | Physical Science. | |
| ,, | Richard Tomlinson, | England, | Classics.<br>Mental Philosophy. | |
| 1846 | Robert Graham, | Scotland, | Physical Science. | |
| 1847 | William John Steele, | Ireland, | Physical Science. | |
| ,, | James Porter, | ,, | Physical Science. | |
| 1848 | Adam Milroy, | Scotland, | Classics.<br>Mental Philosophy. | |
| ,, | Walter David Jeremy, | England, | Classics.<br>Mental Philosophy. | |

| | | | Honourable Distinction. | Highest Distinction. |
|---|---|---|---|---|
| 1849 | John Kerr, . . . | Scotland, | . . . . . | Physical Science. |
| ,, | George M'Queen, . . | ,, | . . . . . | Physical Science. |
| ,, | Henry Martyn Barker, . | England, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | John Newton Langley, . | ,, | . . . . . | Classics.<br>Mental Philosophy. |
| 1850 | Alexander Walker, . | Scotland, | Classics.<br>Mental Philosophy. | |
| ,, | Horatio Lindsay Taplin, | England, | Classics.<br>Mental Philosophy. | |
| ,, | Robert Masters Theobald, | ,, | Classics.<br>Mental Philosophy. | |
| 1851 | Carstairs Douglas, . | Scotland, | Physical Science. | |
| ,, | Daniel Davies Jeremy, . | England, | Classics.<br>Mental Philosophy. | |
| 1852 | Thomas Logan, . . | Scotland, | Physical Science. | |
| ,, | James Wylie Johnston, | ,, | Classics.<br>Mental Philosophy. | |
| 1853 | Charles Abercromby Smith, | ,, | . . . . . | Physical Science. |
| ,, | William Jack, . . | ,, | . . . . . | Physical Science. |
| ,, | Edward John Gibbs, . | England, | . . . . . | Classics.<br>Mental Philosophy. |
| 1856 | James Galbraith, . . | Scotland, | Physical Science. | |
| ,, | John Murray, . . | ,, | Physical Science. | |
| 1857 | Joseph David Everett, . | England, | . . . . . | Physical Science. |
| ,, | George Monro Grant, | Nova Scotia, | . . . . . | Mental Philosophy. |
| ,, | David Herbert, . . | Scotland, | Mental Philosophy. | |
| ,, | Neil Macpherson, . . | ,, | Classics.<br>Mental Philosophy. | |
| 1858 | John Weir, . . . . | ,, | Mental Philosophy. | |
| 1859 | Robert Whyte, . . | ,, | Mental Philosophy. | |
| 1860 | Walter Roberts, . . | ,, | Mental Philosophy. | |

## MASTERS OF ARTS (M.A).

Ordinances No. 14, Sections vi., vii., viii. ; No. 18, Section iii. (1858).

| | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1862 | John Ferguson, . . . | Scotland, | ... | ... | ... | I |
| 1866 | John Mann, . . . . . | ,, | I | .. | ... | ... |
| ,, | John Fergusson, . . . . | ,, | ... | II | ... | ... |
| 1867 | William E. Grigsby, . . | England, | II | ... | ... | ... |
| ,, | James Smith, . . . . | Scotland, | ... | ... | I | ... |
| ,, | William Ross, . . . . . | ,, | ... | ... | II | ... |
| 1868 | Robert Stewart, . . . . | ,, | ... | I | .. | .. |
| ,, | John Wilson, . . . . . | ,, | ... | I | ... | ... |

| | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1869 | Favour James Greg, | Scotland, | ... | I | ... | ... |
| ,, | Adam Semple, | ,, | ... | I | ... | ... |
| ,, | Joseph Loudon, | ,, | ... | ... | II | ... |
| ,, | James M'Intosh, | ,, | ... | I | ... | ... |
| 1870 | John Cross, | U.S.A., | I | I | ... | ... |
| ,, | Matthew M. Dickie, | England, | II | I | ... | ... |
| ,, | James Orr, | Scotland, | ... | I | ... | ... |
| ,, | Robert A. Sinclair, | ,, | ... | II | ... | ... |
| ,, | James D. H. Dickson, | ,, | ... | ... | II | ... |
| ,, | Dugald M'Kichan, | ,, | ... | ... | II | ... |
| 1871 | William S. Fleck, | ,, | ... | I | ... | ... |
| ,, | William Oliver, | Wales, | ... | II | ... | ... |
| ,, | John E. H. Thomson, | Scotland, | ... | II | ... | ... |
| ,, | Colin R. M'Clymont, | ,, | ... | I | ... | .. |
| ,, | Charles S. Dickson, | ,, | ... | II | II | ... |
| 1872 | William Hamilton, | ,, | ... | I | ... | ... |
| ,, | John Watson, | ,, | ... | I | ... | ... |
| ,, | Zachary M. H. Ross, | ,, | ... | II | ... | ... |
| ,, | Archibald Russell, | ,, | ... | II | ... | ... |
| ,, | William G. Miller, | ,, | ... | .. | II | ... |
| ,, | John M. Brown, | ,, | ... | I | .. | ... |
| ,, | Alexander S. Macphee, | ,, | ... | I | ... | ... |
| ,, | James C. MacTaggart, | ,, | ... | ... | I | ... |
| ,, | James Henderson, | ,, | ... | ... | II | ... |
| 1873 | William Bathgate, | ,, | I | ... | ... | ... |
| ,, | John M'Cunn, | ,, | ... | I | ... | ... |
| ,, | Thomas L. Galloway, | ,, | ... | ... | I | ... |
| ,, | David Hunter, | ,, | II | I | ... | ... |
| ,, | Robert Harvey, | ,, | I | ... | ... | ... |
| ,, | Thomas H. Miller, | ,, | ... | ... | I | .. |
| ,, | Buchanan Blake, | ,, | ... | II | ... | ... |
| ,, | James Arthur, | ,, | ... | ... | II | ... |
| 1874 | James Bonar, | ,, | I | I | ... | ... |
| ,, | James G. Frazer, | ,, | I | ... | ... | ... |
| ,, | Alexander F. Fraser, | ,, | ... | I | ... | ... |
| ,, | John Wilson Reid, | ,, | I | ... | II | ... |
| ,, | Colin Campbell, | ,, | II | I | ... | ... |
| ,, | James Thomson, | ,, | ... | I | ... | ... |
| ,, | Hugh Hart Currie, | ,, | II | ... | ... | ... |
| ,, | James MacKay, | ,, | ... | II | ... | ... |
| 1875 | Benjamin F. C. Costelloe, | Ireland, | II | I | ... | ... |
| ,, | William Yuill King, | Scotland, | I | ... | ... | ... |
| ,, | William Patrick, | ,, | ... | I | ... | ... |
| ,, | John Patrick, | ,, | II | ... | ... | ... |
| ,, | James S. Russell, | ,, | ... | ... | I | ... |
| ,, | John C. Watt, | ,, | ... | ... | I | ... |
| ,, | John B. Douglas, | England, | II | ... | ... | ... |
| ,, | Neil D. MacLachlan, | Scotland, | ... | II | .. | ... |
| ,, | James Johnston Dobbie, | ,, | ... | ... | ... | I |
| 1876 | James Lambie, | ,, | ... | I | ... | ... |
| ,, | Ebenezer B. Speirs, | ,, | ... | I | ... | ... |

| | | | Class of Honours and Department. | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1876 | Islay F. Burns, . . . | Scotland, | II | … | … | … |
| ,, | Robert MacLehose, . . . | ,, | … | II | … | … |
| ,, | Joseph Conn, . . . . | ,, | … | … | II | … |
| ,, | Robert H. Pinkerton, . . | ,, | … | … | II | … |
| ,, | David Wilson,. . . . | ,, | … | … | II | … |
| ,, | John P. Mitchell, . . . | ,, | … | I | … | … |
| ,, | William M. Rankin, . . | ,, | … | I | … | … |
| ,, | Andrew Gray,. . . . | ,, | … | … | II | … |
| 1877 | Wallace M. Lindsay, . . | ,, | I | II | … | … |
| ,, | Alexander S. Wilson, . . | ,, | … | … | … | I |
| ,, | James Kidd, . . . . | ,, | … | I | … | … |
| ,, | Thomas B. Kilpatrick, . . | ,, | … | I | … | … |
| ,, | Mungo W. M'Callum, . . | ,, | … | II | .. | … |
| ,, | William Allan, . . . | ,, | … | … | II | … |
| ,, | James Arthur,. . . . | ,, | … | … | II | … |
| 1878 | Robert Mackintosh,. . . | ,, | II | I | … | … |
| ,, | John Edgar, . . . . | ,, | I | … | … | … |
| ,, | John M. Dodds, . . . | ,, | … | … | I | … |
| ,, | David W. Forrest, . . . | ,, | … | II | … | … |
| ,, | Alexander Isdale, . . . | ,, | … | I | … | … |
| ,, | Lewis A. Muirhead,. . . | ,, | … | I | … | … |
| ,, | James Wilson, . . . | ,, | II | … | II | … |
| 1879 | John Wilson Marshall, . . | ,, | I | II | … | … |
| ,, | Francis Wm. Clark, . . | ,, | II | II | … | … |
| ,, | Henry Jones, . . . . | Wales, | … | I | … | … |
| ,, | William T. Bankhead, . . | Scotland, | … | II | … | … |
| ,, | Andrew Rutherfurd, . . | ,, | … | II | … | … |
| ,, | James Thomson, . . . | Ireland, | … | … | II | … |
| ,, | James Denney, . . . | Scotland, | I | I | … | … |
| ,, | James Kippen Duff, . . | ,, | I | … | … | … |
| ,, | Robert Tannahill Younger, . | ,, | … | II | … | … |
| ,, | William L. Macindoe, . . | ,, | … | … | II | … |
| 1880 | Alexander Gregory,. . . | ,, | II | … | … | … |
| ,, | Thomas Gregory, . . . | ,, | I | I | I | … |
| ,, | Alexander N. Cumming, . . | ,, | II | II | … | … |
| ,, | Hugh Young Reyburn, . . | ,, | II | II | … | … |
| ,, | John G. A. Dow, . . . | ,, | II | … | … | … |
| ,, | John Henderson, . . . | ,, | … | II | … | … |
| 1881 | Cecil J. Swan, . . . . | ,, | II | … | … | … |
| ,, | Francis H. Stead, . . . | England, | II | I | … | … |
| ,, | David S. Adam, . . . | Scotland, | … | I | … | … |
| ,, | William Granger, . . . | ,, | … | I | … | … |
| ,, | Robert F. Muirhead, B.Sc., . | ,, | . | .. | I | … |
| ,, | Alexander Russell, . . . | ,, | … | … | I | … |
| ,, | Patrick H. Aitken, . . . | ,, | II | … | … | … |
| ,, | Alexander Anderson, . . | ,, | II | … | .. | … |
| ,, | Robert T. Loudon, . . . | ,, | … | II | … | … |
| ,, | Robert Veitch, . . . | England, | … | II | … | .. |
| ,, | James Maclay,. . . . | Scotland, | … | … | II | … |
| ,, | John Stuart, . . . . | ,, | … | … | II | … |
| ,, | James Hamilton, . . . | ,, | … | … | II | … |

| | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1882 | James A. M'Callum, | Scotland, | ... | I | ... | ... |
| ,, | John H. Fullarton, | ,, | ... | ... | ... | I |
| ,, | Charles P. Blair, | ,, | ... | II | ... | .. |
| ,, | James M. Dodds, | ,, | I | ... | ... | ... |
| ,, | John S. MacKenzie, | ,, | ... | I | ... | ... |
| ,, | William Smart, | ,, | ... | I | ... | ... |
| ,, | John Weir, | ,, | ... | ... | I | ... |
| ,, | John Gray, | ,, | ... | II | ... | ... |
| ,, | Charles Steele, | ,, | ... | II | ... | ... |
| 1883 | John Aitken Orr, | ,, | ... | I | ... | ... |
| ,, | Alexander Robinson, | ,, | ... | II | ... | ... |
| ,, | Lewis Hughes, | Wales, | ... | II | .. | .. |
| ,, | Francis Anderson, | Scotland, | ... | I | ... | ... |
| ,, | Wm. S. M'Kechnie, | ,, | ... | I | ... | .. |
| ,, | William Muir, | ,, | ... | I | ... | .. |
| ,, | James W. Inglis, | ,, | II | ... | ... | .. |
| ,, | Patrick H. Hutchinson, | Ireland, | II | ... | ... | .. |
| ,, | Robert A. Moody, | Scotland, | II | ... | ... | ... |
| ,, | William T. Mitchell, | ,, | ... | ... | II | ... |
| 1884 | Andrew A. Mitchell, | ,, | I | ... | ... | ... |
| ,, | James M'Millan, | ,, | I | ... | ... | ... |
| ,, | Archd. S. Laidlaw, | ,, | ... | I | ... | ... |
| ,, | John Mack, | ,, | ... | ... | I | ... |
| ,, | William Clark, | ,, | II | ... | ... | ... |
| ,, | John Struthers, | ,, | II | I | ... | ... |
| ,, | Archibald M'Laren, | ,, | I | ... | ... | ... |
| ,, | John Adams, | ,, | ... | I | ... | ... |
| ,, | James Barr, | ,, | ... | I | ... | ... |
| ,, | Gavin Lambie, | ,, | .. | I | ... | ... |
| ,, | Robert M. Wenley, | ,, | ... | I | ... | ... |
| ,, | George G. Henderson, | ,, | ... | ... | ... | I |
| ,, | Campbell N. Moody, | ,, | II | II | .. | ... |
| ,, | Hugh Stevenson, | ,, | ... | II | ... | ... |
| ,, | James Strachan, | ,, | ... | ... | II | ... |
| ,, | Alex. B. Symington, | ,, | II | ... | ... | ... |
| 1885 | John Lee, | ,, | I | ... | ... | ... |
| ,, | James Buchanan, | ,, | ... | ... | I | ... |
| ,, | Norman Fraser, | ,, | ... | ... | I | ... |
| ,, | James P. M'Laren, | ,, | II | ... | ... | ... |
| ,, | William Binnie, | ,, | ... | II | ... | ... |
| ,, | David Frew, | ,, | ... | II | ... | ... |
| ,, | Richard Glaister, | ,, | ... | II | ... | ... |
| ,, | David Houston, | ,, | ... | II | ... | ... |
| ,, | Walter Wingate, | ,, | ... | ... | II | ... |
| ,, | William M. Mackay, | ,, | ... | I | ... | ... |
| ,, | Andrew F. Smith, | ,, | ... | I | ... | ... |
| ,, | Alex. L. Watson, | ,, | II | ... | ... | ... |
| ,, | Archibald J. Macnicol, | ,, | ... | ... | II | ... |
| 1886 | Charles F. Fleming, | England, | ... | I | ... | ... |
| ,, | Wellstood A. Watt, | Scotland, | ... | I | ... | ... |
| ,, | John Dougall, | ,, | ... | ... | I | ... |

| | | | Class of Honours and Department. | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1886 | John M'Cowan, B.Sc., | Scotland, | ... | ... | I | ... |
| ,, | William H. Carslaw, | ,, | ... | ... | II | ... |
| ,, | Magnus M'Lean, | ,, | ... | ... | II | ... |
| ,, | John A. Cramb, | ,, | I | ... | ... | ... |
| ,, | Robert A. Duff, | ,, | ... | I | ... | ... |
| ,, | William Johnston, | ,, | ... | II | ... | ... |
| ,, | James Macmillan, | ,, | ... | ... | II | ... |
| ,, | Robert A. Nicolson, | ,, | ... | ... | II | ... |
| 1887 | James Finlayson, | ,, | ... | ... | II | ... |
| ,, | James Gifford, | ,, | ... | II | ... | ... |
| ,, | Charles Mackay Gordon, | W. Indies, | ... | I | ... | ... |
| ,, | David Smith, | Scotland, | I | ... | ... | ... |
| ,, | John Watson Bryson, | ,, | ... | I | ... | ... |
| ,, | Robert Gardner, | ,, | ... | II | ... | ... |
| ,, | James Gilfillan, | ,, | ... | I | ... | ... |
| ,, | Daniel Kirkwood, | ,, | ... | II | ... | ... |
| ,, | Alexander Lucas Taylor, | ,, | II | ... | ... | ... |
| ,, | John Thomson, | ,, | ... | ... | II | ... |
| 1888 | John Esslemont Adams, | ,, | II | ... | ... | ... |
| ,, | Archibald Lamont, | ,, | ... | II | ... | ... |
| ,, | Arthur David Millar, | ,, | I | ... | ... | ... |
| ,, | John Dickson Sinclair, | ,, | ... | II | ... | ... |
| ,, | Evan Keri Evans, | Wales, | ... | I | ... | ... |
| ,, | Robert Kennedy, B.Sc., | Scotland, | ... | ... | ... | I |
| ,, | John Liddle King, | ,, | ... | II | ... | ... |
| ,, | Malcolm Macnicol, | ,, | ... | ... | II | ... |
| ,, | Ernest Findlay Scott, | England, | I | I | ... | ... |
| ,, | Robert Scrymgeour, | Scotland, | ... | I | ... | ... |
| ,, | Robert Reid Strachan, | ,, | ... | II | ... | ... |
| ,, | John Cunningham Walker, | ,, | ... | II | ... | ... |
| 1889 | Norman de Garis Davies, | England, | ... | II | .. | ... |
| ,, | George Davidson Kempt, | Scotland, | ... | II | ... | ... |
| ,, | Alfred Ernest Garvie, | Poland, | ... | I | ... | ... |
| ,, | John Hunter Harley, | Scotland, | ... | I | ... | ... |
| ,, | John Brownlee, | ,, | ... | ... | I | ... |
| 1890 | James Fairlie Gemmill, | ,, | I | ... | ... | ... |
| ,, | John Edgar M'Fadyen, | ,, | I | ... | ... | ... |
| ,, | James Robertson Cameron, | ,, | ... | I | ... | ... |
| ,, | James Moffatt, | ,, | II | .. | ... | ... |
| ,, | James Peter Wilson, | ,, | II | ... | ... | ... |
| ,, | John Easton Black, | ,, | ... | II | ... | ... |
| ,, | George Douglas Brown, | ,, | I | ... | ... | ... |
| ,, | Robert Bulloch Douglas, | ,, | ... | I | ... | ... |
| ,, | Peter Pinkerton, | ,, | ... | ... | I | ... |
| ,, | Douglas Blyth Binning, | ,, | ... | II | ... | ... |
| ,, | Robert Baillie Douglas, | ,, | ... | II | ... | ... |
| ,, | James Hair Maclean, | ,, | ... | II | ... | ... |
| ,, | Gilbert Buchanan, | ,, | ... | ... | II | ... |
| ,, | Alexander Holm, | ,, | ... | ... | II | ... |
| 1891 | John Hamilton Pagan | ,, | I | ... | ... | ... |
| ,, | John Gillies, | ,, | II | ... | ... | ... |

| | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1891 | John M'Gilchrist, | Scotland, | II | ... | ... | ... |
| ,, | Horatio Scott Carslaw, | ,, | ... | ... | I | ... |
| ,, | James Holm, | ,, | ... | ... | I | ... |
| ,, | Nicol Macnicol, | ,, | II | II | ... | ... |
| ,, | John White, | ,, | ... | II | ... | ... |
| 1892 | David Donaldson Robertson, | ,, | ... | I | ... | ... |
| ,, | Daniel Lamont, | ,, | ... | II | I | ... |
| ,, | John Gillespie Spens, | ,, | II | ... | ... | ... |
| ,, | Alexander Taylor, | ,, | II | ... | ... | ... |
| ,, | Walter Stewart, | ,, | ... | ... | I | ... |
| 1893 | Donald Nicol Dow, | ,, | I | ... | ... | ... |
| ,, | Gilchrist Gibb Alexander, | ,, | ... | I | ... | ... |
| ,, | Robert Stevenson Horne, | ,, | ... | I | ... | ... |
| ,, | William Sandilands Templeton, | ,, | ... | ... | I | ... |
| ,, | Wm. Carrick Anderson, | ,, | ... | ... | ... | I |
| ,, | Edward H. Wallace, | ,, | II | ... | II | ... |
| 1894 | Campbell M. Macleroy, | ,, | I | ... | ... | ... |
| ,, | Robert George Nisbet, | ,, | II | ... | ... | ... |
| ,, | Andrew Robertson, | ,, | II | ... | ... | ... |
| ,, | John Charles Scott, | Ireland, | I | ... | ... | ... |
| ,, | Charles William Thomson, | Scotland, | I | ... | ... | ... |
| ,, | William Romaine Paterson, | ,, | ... | I | ... | ... |
| ,, | Charles Shirra Dougall, | ,, | ... | ... | I | ... |
| ,, | William Craig Henderson, | ,, | ... | ... | I | ... |
| ,, | John Macfarlane Forsyth, | ,, | II | ... | ... | ... |
| 1895 | William Gow, | ,, | I | ... | ... | ... |
| ,, | Joseph Ferguson M'Fadyen, | ,, | I | ... | ... | ... |
| ,, | Gavin Lang Pagan, | ,, | ... | I | .. | ... |
| ,, | William Anderson Lindsay, | ,, | ... | ... | I | ... |
| ,, | Thomas Nisbet, | ,, | ... | ... | I | ... |
| ,, | John Alexander Duke, | ,, | ... | II | ... | ... |
| 1896 | David Hodge Crawford, | ,, | I | ... | ... | ... |
| ,, | John Freeland Cunningham, | ,, | II | ... | ... | ... |
| ,, | John Girvan, | ,, | II | ... | ... | ... |
| ,, | James M'Murtrie, | ,, | II | ... | ... | ... |
| ,, | James Slater Dunlop, | ,, | ... | ... | II | ... |
| ,, | William Morrison, | ,, | ... | II | ... | ... |
| ,, | Samuel Harvey M'Ewing, | ,, | ... | II | ... | ... |
| ,, | Alexander Smith, | ,, | ... | II | ... | ... |
| ,, | John Miller, | ,, | ... | ... | I | .. |
| 1898 | William John Saull, | England, | ... | II | ... | ... |
| 1899 | James Moffat, | Scotland, | ... | ... | II | ... |

# MASTERS OF ARTS (M.A.).

Ordinances No. 11, Sections xi.-xv.; No. 44, Sections vi., viii.; No. 148, Sections ii., iii.; No. 160, Sections i.-iii.; No. 168, Section i. (1889).

| | | First Class. | Second Class. | Third Class. |
|---|---|---|---|---|
| 1894 | Henry Noel Brailsford, England, | Mental Philosophy. | Classics. | |
| 1895 | William Gregory Bell, do., | Classics. | | |
| ,, | James Wallace Peck, Scotland, | Math. & Nat. Phil. | | |
| ,, | William King Gillies, do., | Classics.<br>Mental Philosophy. | | |
| 1896 | James Paterson Brander, do., | Classics. | | |
| ,, | John Maclean Ramsay, do., | Classics. | | |
| ,, | Horace Fenton Wallace, do., | Classics. | | |
| ,, | James Gillespie, . do., | . . . . . | Classics. | |
| ,, | William Boyd, . . do., | Mental Philosophy. | | |
| ,, | James Wilson Copeland, do., | Math. & Nat. Phil. | | |
| ,, | Adam Bell Stewart, . do., | Math. & Nat. Phil. | | |
| ,, | George Donald Valentine, do., | Math. & Nat. Phil. | | |
| ,, | Arthur West Wilkie,. England, | . . . . . | Math.&N.P. | |
| ,, | John Young, . . Scotland, | . . . . . | Math.&N.P. | |
| 1897 | George Stewart Adams, do., | Classics. | | |
| ,, | Robert Daniels Bell, . England, | Classics. | | |
| ,, | John W. Henderson, Scotland, | Classics. | | |
| ,, | Peter William Monie, do., | Classics. | | |
| ,, | Marion M. Crichton, . China, | . . . . . | Classics. | |
| ,, | Alex. James Martin, . Scotland, | . . . . . | Classics. | |
| ,, | Thomas Neilson, . do., | . . . . . | Classics. | |
| ,, | Allan Gibson, . . do., | . . . . . | . . | Classics. |
| ,, | Thomas Ellis Jones, . Wales, | Mental Philosophy. | | |
| ,, | David Stevenson, . Scotland, | . . . . . | . . | English. |
| ,, | William M. R. Pringle, ,, | History. | Classics. | |
| ,, | Gavin Scott, . . ,, | History. | Classics. | |
| ,, | Adam Hamilton, . ,, | Classics. | | |
| ,, | James William Baird, ,, | . . . . . | Classics. | |
| ,, | Grace Foulis Hay, . ,, | . . . . . | Classics. | |
| ,, | William N. Raeburn, ,, | . . . . . | Classics. | |
| ,, | Andrew Boyd Scott, . ,, | Mental Philosophy. | | |
| ,, | John Scoular Thomson, ,, | Mental Philosophy. | | |
| ,, | Alex. M'Callum Scott, ,, | . . . . . | . . | Ment. Phil. |
| ,, | James Campbell Ker, ,, | Math. & Nat. Phil. | | |
| ,, | William Wylie Fulton, ,, | . . . . . | English. | |
| ,, | Richard R. Williams, Wales, | . . . . . | . . | English. |
| 1898 | John Lyle Morison, . Scotland, | History.<br>English. | | |
| ,, | William H. Begg, . ,, | Classics. | | |
| ,, | David L. Blair, . . ,, | Classics. | | |
| ,, | John Harvey, . . ,, | Classics. | | |
| ,, | Dorothy N. T. Murray, ,, | . . . . . | Classics. | |
| ,, | Constance Tannahill, England, | . . . . . | . . | Classics. |
| ,, | Alexander A. Gardner, Scotland, | Math. & Nat. Phil. | | |
| ,, | James E. Henderson, ,, | . . . . . | Math.&N.P. | |
| ,, | Wm. Fulton (Uddingston), ,, | Classics. | Math.&N.P. | |

| | | First Class. | Second Class. | Third Class. |
|---|---|---|---|---|
| 1898 | Eliz. Pettigrew Taylor, Scotland, | Math. & Nat. Phil. | English. | |
| ,, | Willam Longmore Parkin, ,, | . . . . . | . . | Classics,<br>M. Phil. |
| ,, | Robert M'Ewan, . ,, | Classics. | | |
| ,, | Helen Rutherfurd, . ,, | Classics. | | |
| ,, | William Fulton (Glasgow), ,, | . . . . . | Classics. | |
| ,, | William Henderson Love, ,, | . . . . . | Classics. | |
| ,, | Alexander Auchinachie, ,, | . . . . . | . . | Classics. |
| ,, | And. James Campbell Kerr, ,, | . . . . . | . . | Classics. |
| ,, | Hugh Reid Buchanan, ,, | Mental Philosophy. | | |
| ,, | David H. Tweeddale, ,, | Mental Philosophy. | | |
| ,, | Robert Candlish, . ,, | . . . . . | Ment. Phil. | |
| ,, | Robert John Tainsh Bell, ,, | Math. & Nat. Phil. | | |
| ,, | Thomas Pullar, . . ,, | Math. & Nat. Phil. | | |
| ,, | Joseph White, . . ,, | Math. & Nat. Phil. | | |
| ,, | Hugh Brown, . . ,, | . . . . . | Math.&N.P. | |
| ,, | Peter Lowson, . . ,, | . . . . . | Math.&N.P. | |
| ,, | John Jeffrey, . . ,, | . . . . . | . . | M.&N.P. |
| ,, | Helen Margaret Rule, ,, | English. | | |
| ,, | Henry Murphy, . . ,, | . . . . . | English. | |
| ,, | Henry Givan Webber, ,, | . . . . . | . . | English. |
| 1899 | Samuel F. H. Mackay ,, | Classics. | | |
| ,, | Archibald Main, . ,, | Mental Philosophy. | | |
| ,, | John Edgar, . . ,, | English. | | |
| ,, | Maude Gertrude May, England, | English. | | |
| ,, | Alexander D. Lindsay, Scotland, | . . . . . | Classics. | |
| ,, | Charles G. M'Ilravey, Ireland, | . . . . . | Classics. | |
| ,, | Gordon B. Nielson, . Scotland, | . . . . . | English. | |
| ,, | Jessie Lyon Gilchrist, ,, | . . . . . | Mod. Lang. | |
| ,, | Minnie Louise Arthur, ,, | . . . . . | . . | M. Lang. |
| ,, | David M. Stewart, . ,, | Math. & Nat. Phil. | | |
| ,, | John Lochhead, . . ,, | English. | History. | |
| ,, | Ritchie Girvan, . . ,, | English. | . . | Classics |
| ,, | John Anderson, . . ,, | . . . . . | Classics,<br>Math.&N.P. | |
| ,, | William A. Edward, . England, | Classics. | | |
| ,, | James Sheridan, . Scotland, | Classics. | | |
| ,, | James M'Clelland, . ,, | . . . . . | Classics. | |
| ,, | James Faulds, . . ,, | . . . . . | . . | Classics. |
| ,, | Arch. M. Macmillan, B.Sc., ,, | Math. & Nat. Phil. | | |
| ,, | David K. Picken, . ,, | Math. & Nat. Phil. | | |
| ,, | Robert W. Stewart, . ,, | . . . . . | Math.&N.P. | |
| ,, | Katharine T. M'Millan, ,, | English. | | |
| ,, | George Ogilvie, . . ,, | English. | | |
| ,, | Janet Spens, . . ,, | English. | | |
| 1900 | Mabel Atkinson, . England, | Mental Philosophy. | Classics. | |
| ,, | George H. Stevenson, Scotland, | Classics. | | |
| ,, | Robert B. Carslaw, . ,, | Math. & Nat. Phil. | | |
| ,, | Peter Ramsay, . . ,, | Math. & Nat. Phil. | | |
| ,, | James Jack, . . ,, | . . . . . | Classics. | |
| ,, | Norman R. Mitchell. . ,, | . . . . . | Classics. | |
| ,, | Matthew Babington, . ,, | . . . . . | Ment. Phil. | |
| ,, | Peter Lowe, B.Sc., . ,, | . . . . . | Math.&N.P. | |

| | | | First Class. | Second Class. | Third Class. |
|---|---|---|---|---|---|
| 1900 | Winifred Boyd, . . | India, | . . . . . | English. | |
| ,, | Margaret G. Fulton, . | Scotland, | . . . . . | Mod. Lang. | |
| ,, | James Johnston, . | do., | Mental Philosophy. | . . . . | |
| ,, | Alex. B. Mackay, . | do., | Mental Philosophy. | . . . . | |
| ,, | Alexander Montgomerie, | do., | Mental Philosophy. | [1] History. | |
| ,, | David G. Taylor, . | do., | Math. and Nat. Phil. | . . . . | |
| ,, | Margaret L. Anderson, | do., | English. | . . . . | |
| ,, | Peter George Smith, . | do., | . . . . . | Ment. Phil. | |
| ,, | John Charles Mann, . | England, | . . . . . | Math.&N. P. | |
| ,, | Roderick M. Nicol, . | Scotland, | . . . . . | Math.&N.P. | |
| ,, | James Miller Clark, . | do., | . . . . . | . . . . | M.&N.P. |
| 1901 | James F. Dyer, . . | Japan, | Classics.<br>[1] Economic Science. | . . . . | |
| ,, | Peter Hately Waddell, | Singapore, | Classics. | . . . . | |
| ,, | Francis P. H. Stirling, | Scotland, | Math. and Nat. Phil. | . . . . | |
| ,, | Hugh Watt, . . | do., | English. | . . . . | |
| ,, | Marion K. Binnie, . | do., | Modern Languages. | . . . . | |
| ,, | William H. Buchan, . | do., | . . . . . | Classics. | |
| ,, | Owen L. Jones, . . | Wales, | . . . . . | Classics. | |
| ,, | Thomas R. M'Murtrie, | Scotland, | . . . . . | Classics. | |
| ,, | Alexander Russell, . | do., | . . . . . | Classics. | |
| ,, | Andrew M'Kerral, . | do., | . . . . . | Math.&N.P. | |
| ,, | Arthur S. Hutchison, | do., | . . . . . | | Classics. |
| ,, | [2] Thomas Jones, . . | do., | Economic Science. | | |
| ,, | Dougald B. M'Quistan, | do., | Math. and Nat. Phil. | Classics. | |
| ,, | Steuart N. Miller, . | do., | Classics. | | |
| ,, | Charles A. Young, . | do., | English. | | |
| ,, | Stanley H. Turner, . | England, | Economic Science. | | |
| ,, | John J. Gemmell, . | Scotland, | . . . . . | Classics. | |
| ,, | Thomas Graham, . | do., | . . . . . | Classics. | |
| ,, | Jas. G. MacDonald, | Br. Cen. Africa, | . . . . . | Classics. | |
| ,, | James Moyes, . . | Scotland, | . . . . . | Classics. | |
| ,, | William R. Wiseman, | do., | . . . . . | Ment. Phil. | |
| ,, | James N. Stirling, . | do., | . . . . . | Math.&N.P. | |
| ,, | Catherine Bennie, . | do., | . . . . . | Mod. Lang. | |
| ,, | James H. Steel, . . | do., | . . . . . | Econ. Sc. | |
| 1902 | Margaret A. Scott, . | do., | Modern Languages. | | |
| ,, | James M'Nabb, . . | do., | . . . . . | Math.&N.P. | |
| ,, | Helen M. Armour, . | do., | . . . . . | English. | |
| ,, | Alexander Mackinnon, | do., | . . . . . | English. | |
| ,, | Edith M. Lindsay, . | do., | . . . . . | History. | |
| ,, | [3] Frederick Mort, . | do., | . . . . . | . . . . | M.&N.P. |

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[1] Postgraduate Honours in Oct., 1901.

[2] Took the Ordinary Degree in Nov., 1900.

[3] Took the Ordinary Degree in April, 1900.

## BACHELORS OF SCIENCE (B.Sc.). (*O.R.*)

| | | | *Honours.* | |
|---|---|---|---|---|
| | | | Natural Science. | Engineering Science. |
| 1879 | Robert F. Muirhead, C.E., | Scotland, | . . . . . | Math. & Nat. Phil. II |
| 1882 | John Cleland, C.E., | do., | . . . . . | Math. & Nat. Phil. II |
| 1883 | John M'Cowan, C.E., | do., | . . . . . | Math. & Nat. Phil. II |
| 1884 | William Weir, | do., | . . . . . | Math. & Nat. Phil. II |
| ,, | James C. Todd, | India, | Math. & Nat. Phil. II | |
| 1886 | Lawrence Crawford, | Scotland, | . . . . . | Math. & Nat. Phil. I |
| 1887 | Angus M'Lean, | do., | . . . . . | Math. & Nat. Phil. II |
| 1890 | James Stanley Muir, | do., | Chemistry. | |
| ,, | Robert Watson Smith, | do., | Chemistry. | |
| 1891 | James Fenwick, | Australia, | . . . . . | Civil Engineering. |
| ,, | Robert Main, | Scotland, | Chemistry. | |
| ,, | Robert Muir Ferrier, | do., | . . . . . | Civil Engineering. |
| 1892 | John Dewar Cormack, | do., | . . . . . | Math. & Nat. Phil. I<br>Civil Engineering. |
| ,, | Jas. Blacklock Henderson, | do., | . . . . . | Math. & Nat. Phil. I<br>Civil Engineering. |
| ,, | James Rankin, | do., | Zoology and Botany. | |
| ,, | William S. Cook, | do., | Physiology. | |
| ,, | David R. Boyd, | do., | Chemistry. | |
| 1893 | James C. Robertson, M.A., | do., | Anat. and Physiol. | |
| 1894 | Charles Forbes, | do., | . . . . . | Civil Engineering. |
| ,, | Wm. Henry Lang, | England, | Botany and Zoology. | |
| ,, | George Wm. Shearer, | Ireland, | . . . . . | Civil Engineering, |
| 1895 | Wm. Craig Henderson, | Scotland, | . . . . . | Math. & Nat. Phil. I |
| ,, | Hugh Calderwood, | do., | Anat. and Physiol. | |
| ,, | John Allan Craigie Macewen, | do., | Anat. and Physiol. | |
| ,, | William Hamilton, | do., | . . . . . | Civil Engineering. |
| ,, | Campbell Macmillan, | do., | . . . . . | Civil Engineering. |
| ,, | Thomas Hunter, M.A., | do., | Anat. and Physiol. | |
| ,, | William Martin, M.A., | do., | Anat. and Physiol. | |
| 1896 | William S. Templeton, M.A., | do., | . . . . . | Math. &. Nat. Phil |
| ,, | Peter L. L. Craig, M.A., | do., | Anat. and Physiol. | |

## BACHELORS OF SCIENCE (PURE SCIENCE).

Ordinance No. 12, Section ix. (1889).

| | | *Subjects of Final Examination.* | | |
|---|---|---|---|---|
| 1898 | John Pinkerton Duncan, | Anatomy. | Physiology. | Zoology. |
| ,, | Ruth Pirret, | Mathematics. | Chemistry. | Physiology. |
| ,, | Daisy Annabella Murdoch Clark, | Physiology. | Zoology. | Botany. |
| ,, | William Anderson Lindsay, M.A., | Mathematics. | Nat. Phil. | *Astronomy. |
| ,, | Allan Martin, M.A., | Anatomy. | Physiology. | Zoology. |
| 1899 | Robert John Tainsh Bell, M.A., | Mathematics. | *Nat. Phil. | *Astronomy. |
| ,, | Robert Macfarlane Clark, | Mathematics. | *Nat. Phil. | Chemistry. |
| ,, | William Anderson, | Mathematics. | *Nat. Phil. | *Astronomy. |

* The asterisks indicate Special Distinction in the subjects to which they are prefixed.

| | | *Subjects of Final Examination.* | | | |
|---|---|---|---|---|---|
| 1899 | James Slater Dunlop, M.A., | Mathematics. | Nat. Phil. | Astronomy. | |
| ,, | Robert William Stewart, | *Mathematics. | *Nat. Phil. | Chemistry. | |
| ,, | Robert George White, M.A., | Anatomy. | Physiology. | Zoology. | |
| 1900 | Gertrude Dorman Bostock, | Anatomy. | Physiology. | Zoology. | |
| ,, | Kate Fraser, | Anatomy. | *Physiology. | Zoology. | |
| ,, | William Fulton, M.A., | *Mathematics. | Nat. Phil. | *Astronomy. | |
| ,, | William Boyd, M.A., | Chemistry. | Geology. | Zoology. | |
| ,, | Joseph White, M.A. | *Mathematics. | *Nat. Phil. | Anatomy. | Physiology. |
| 901 | James Miller Clark, M.A., | Mathematics. | Nat. Phil. | *Astronomy. | |
| ,, | James Alex. Russell Henderson, | Mathematics. | Chemistry. | Geology. | |
| ,, | Ivy M'Kenzie, M.A., | Anatomy. | Physiology. | Zoology. | |
| ,, | Alexander Matheson, M.A., | Anatomy. | Physiology. | Zoology. | |
| ,, | Alexander Wood, | Mathematics. | Nat. Phil. | *Astronomy. | |
| ,, | Robert Donald, | Chemistry. | Geology. | Zoology. | |
| ,, | Malcolm Hutton, M.A., | Anatomy. | Physiology. | Zoology. | |
| ,, | William Hyslop, M.A., | *Mathematics. | *Nat. Phil. | Geology. | |
| ,, | Jane Hamilton M'Ilroy, M.A., | Physiology. | Zoology. | Botany. | |
| ,, | John Muir, | Anatomy. | Physiology. | Geology. | |
| 902 | Frederick Mort, M.A., | Mathematics. | Nat. Phil. | Geology. | |
| ,, | George Goldie Smith, | Anatomy. | Physiology. | Zoology. | |
| ,, | Alfred Walter Stewart, | Mathematics. | Chemistry. | Geology. | |

* The asterisks indicate Special Distinction in the subjects to which they are prefixed.

## DOCTORS OF MEDICINE (M.D.). (*O.R.*) HONOURS.

| | | | | | |
|---|---|---|---|---|---|
| 845 | Alexander Lindsay, | Scotland. | 1853 | Richard Stanistreet, | Ireland. |
| ,, | James Craigie Murray, | do. | ,, | David Knox, | do. |
| ,, | Francis Reynolds, | Ireland. | 1854 | John Lindsay Stewart, | Scotland. |
| ,, | John Brown, | Scotland. | ,, | James Fraser Paton, | do. |
| ,, | John Gardiner, | do. | ,, | David Easton, | Ireland. |
| ,, | Donald Cameron, | Isle of Man. | 1855 | William Leishman, | Scotland. |
| ,, | Adam Nicholson, | Scotland. | ,, | William J. Lewis, | New Brunswick |
| ,, | John Duke, | Ireland. | ,, | Alexander Robertson, | Scotland. |
| 847 | William Parry, | Wales. | 1857 | Thomas Beaumont, | Ireland. |
| ,, | Robert Livingstone, | Scotland. | ,, | Joseph M. Fleming, | Scotland. |
| ,, | Alexander B. Sharpe, | do. | ,, | Maxwell Rodgers, | Ireland. |
| 848 | Charles H. Hitchen, | England. | 1858 | John Couper, | Scotland. |
| ,, | James Steven, | Scotland. | ,, | Thomas M'Call Anderson, | do. |
| ,, | John Coates, | Ireland. | 1859 | Daniel Dougal, | do. |
| 849 | Robt. Brown M'Clelland, | do. | 1861 | William Marshall, | America. |
| ,, | Thomas Nicholson, | Scotland. | ,, | John M. Murray, | Scotland. |
| ,, | Robert Settle, | England. | 1862 | James A. Allan, | do. |
| ,, | Richard Thomas Tracy, | Ireland. | 1863 | Robert M'K. Duncan, | do. |
| ,, | Matthew John Rae, | Scotland. | ,, | George M'Donald, | do. |
| 850 | John Ternan, | Ireland. | ,, | Samuel J. Moore, | Ireland. |
| ,, | John Henry Eddowes, | England. | ,, | William Fraser, | Nova Scotia. |
| ,, | James Brash, | Scotland. | ,, | T. Algernon Chapman, | Scotland. |
| 851 | Alexander Marshall, | do. | ,, | Algernon Wood Smith, | do. |
| ,, | Andrew Spearing, | Ireland. | ,, | John P. Atkinson, | England. |
| ,, | James B. Montgomery, | England. | 1864 | John Wyber, | Scotland. |
| ,, | Robert Perry, | Scotland. | ,, | John G. Wilson, M.A., | do. |
| ,, | John Watson, B.A., | do. | 1865 | Arthur A. Jamieson, | England. |
| 853 | John Ritchie Brown, | do. | 1867 | Fred. H. Quaife, M.A., | Sydney, N.S.W. |
| ,, | Charles D. Campbell, | Ireland. | | | |

## DOCTORS OF MEDICINE (M.D.). (*N.R.*)

1876 [1] **Gardner, William, M.B., England.**
1877 [1] **Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."**
1879 [1] **Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."**
1880 [1] **Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."**
1880 [1] **Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."**
1881 [1] **Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."**
1881 [1] **Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."**
1881 [1] **Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."**
1881 [1] **Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."**
1882 [1] **Cairns**, David. M.B. Thesis. "An Outbreak of Pyæmia."
1882 [1] Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
1882 [1] Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
1883 [1] Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
1883 [1] Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
1884 [1] Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
1884 [1] Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
1884 [2] Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."
1884 [2] Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."
1885 [2] Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."
1885 [1] Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
1885 [1] Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
1886 [1] Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
1886 [2] Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis."
1886 [2] Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane."
1886 [1] Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
1886 [1] Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
1887 [1] Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
1887 [1] Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
1887 [1] Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."
1887 [1] Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."
1888 [1] Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."

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[1] Commended for Thesis. [2] Highly Commended.

1888 [1] Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
1888 [1] Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
1888 [1] Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
1889 [1] Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888: its Clinical Features and Nature."
1889 [1] Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
1889 [1] Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
1889 [1] Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
1890 [1] Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."
1890 [1] Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
1891 [1] Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."
1891 [2] Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus."
1891 [1] Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."
1891 [1] M'Gregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."
1891 [1] Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."
1891 [1] Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."
1892 [1] Highet, Hugh, M.B., C.M., Scotland. Thesis, "The Bronchiopneumonia of Influenza, as it occurs in the Adult Subject."
1892 [1] Park, Alexander Glen, M.B., C.M., Scotland. Thesis, "Defects of Speech."
1893 [1] Lang, Hugh, M.B., C.M., Scotland. Thesis, "Empyema, with Notes on a Series of Cases."
1893 [1] Gillies, Hugh Cameron, M.B., C.M., Scotland. Thesis, "The Theory of Counter-irritation."
1893 [2] Carslaw, John Howie, M.A., M.B., C.M., Scotland. Thesis, "On the severer forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment."
1893 [1] Adam, Robert Hillhouse, M.A., M.B., C.M., Scotland. Thesis, "Observations on some Enteric Fever Epidemics."
1893 [1] Bryce, Alexander, M.B., C.M., Scotland. Thesis, "Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk."
1893 [1] Dunlop, Alexander Watson, M.A., M.B., C.M., Scotland. Thesis, "A recent Epidemic of Smallpox, with some remarks on Re-Vaccination."
1893 [1] Gemmell, William, M.B., C.M., Scotland. Thesis, "On the Treatment of Phthisis by a long Sea Voyage in a sailing ship."
1893 [1] Watson, William, M.B., C.M., Scotland. Thesis, "The Prevention and Treatment of Diphtheria."
1894 [1] Johnston, John M'Cubbin, M.A., M.B., C.M., Scotland. Thesis, "The Prognosis of Acute Lobar Pneumonia in the Pauper Class."
1894 [2] Jack, William Robert, B.Sc., M.B., C.M., Scotland. Thesis, "Observations on the Analysis of Voluntary Muscular Movements by certain new Instruments."
1895 [1] Abercrombie, Peter Henderson, M.B., C.M., Scotland. Thesis, "Turbinotomy in Nasal Stenosis: Analysis and Notes of 66 cases."

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[1] Commended for Thesis. [2] With Honours.

1895 [2] Monro, Thomas Kirkpatrick, M.A., M.B., C.M., Scotland. Thesis, "Essays in Neurology; Historical and Clinical."

1895 [1] Banks, Charles, M.B., C.M., Scotland. Thesis, "Observations on Epidemics of Cholera in India with special reference to their immediate connection with pilgrimages.

1895 [1] Bell, Andrew Lees, M.B., C.M., Scotland. Thesis, "The Influence of a previous sire, and its relation to maternal impressions."

1895 [1] Campbell, Finlay Stewart, M.B., C.M., Scotland. Thesis, "Paroxysmal Haemoglobinuria: its treatment with special reference to the arrest of the Paroxysm by Quinine."

1895 [1] Charles, John, M.B., C.M., Scotland. Thesis, "A contribution to the Meteorology of Sporadic Pneumonia."

1895 [1] Macgregor, John, M.B., C.M., Scotland. Thesis, "On Paralysis following Diphtheria in Children."

1895 [1] Edington, George Henry, M.B., C.M., Scotland. Thesis, "Bile Salts (Glycocholate and Taurocholate Soda) in relation to excretion of Urea, etc."

1895 [1] Hughes, Arthur Davies, M.B., C.M., Wales. Thesis, "Anchylostomiasis."

1895 [1] Marr, Hamilton Clelland, M.B., C.M., Scotland. Thesis, "On Myxoedema and the Functions of the Thyroid Gland: with notes on the treatment of certain cases of Insanity by Thyroid preparations."

1896 [1] Marshall, Robert James, M.B., C.M., Scotland. Thesis, "The mild Malaria Fevers and their Microbe."

1896 [1] Dittmar, Frederick, M.A., M.B., C.M., Scotland. Thesis, "Scarlatinal Albuminuria."

1896 [1] Gray, Albert Alexander, M.B., C.M., Scotland. Thesis, "An Investigation into some of the Principles of Auscultation."

1896 [1] Nisbet, Adam Thomson, M.B., C.M., Scotland. Thesis, "Observations on some cases of Liver Abscess."

1896 [1] Todd, James, M.B., C.M., Scotland. Thesis, "Puerperal Scarlatina."

1896 [2] Kennedy, Robert, M.A., B.Sc., M.B., C.M., Scotland. Thesis, "Studies on the Regeneration of Nerves."

1896 [1] Kirkland, Thomas Speirs, M.B., C.M., Scotland. Thesis, "Quinine Amaurosis."

1897 [1] Don, William Walton, M.B., C.M., England. Thesis, "Thyroid Therapeutics."

1897 [1] Hunter, Walter King, B.Sc., M.B., C.M., Scotland. Thesis, "A contribution to the Etiology of Beri-Beri."

1897 [1] Thomson, James, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre, with special reference to its treatment by Thymus Gland."
on some Enteric Fever Epidemics."

1897 [2,3] Thomson, Robert Stevenson, B.Sc., M.B., C.M., Scotland. Thesis, "Pertussal Glucosuria, with observations on the reduction of Fehling's solution by the urine in childhood."

1897 [1] Brownlee, John, M.A., M.B., C.M., Scotland. Thesis, "The Diagnosis and Hospital Administration of Scarlatina."

1897 [1] Galloway, Andrew Fleming, M.B., C.M., Scotland. Thesis, "Movable Kidney: its Aetiology and Symptoms."

1897 [1] Harris, David Fraser, B.Sc., M.B., C.M., Scotland. Thesis, "A Research into the Spectroscopy of Blood-pigment, and its derivatives in health and disease."

1897 [1] Seright, William, M.B., C.M., Scotland. Thesis, "Neurasthenia (nervous exhaustion): a review of the origin and growth of the term, frequency of the disease, and of its chief forms and classifications, symptoms, diagnosis, prognosis, theories, and treatment."

[1] Commended for Thesis. [2] With Honours.

[3] Gained a Bellahouston Gold Medal.

1897 [1] Temple, Lewis Dunbar, M.B., C.M., Scotland. Thesis, "Sporadic Cretinism and allied disorders."
1897 [1] Wylie, Richard John, M.B., C.M., Scotland. Thesis, "Pneumonia, with notes on twenty-nine cases."
1898 [1] M'Kenzie, Daniel, M.B., C.M., Scotland. Thesis, "Endemic Goitre, with particular reference to its occurrence in Lanarkshire, and to its Etiology."
1898 [1] Bell, Robert Gordon, M.B., C.M., Scotland. Thesis, "Enteric Studies, chiefly in Aberrant Types."
1898 [2,3] Findlay, John Wainmann, M.B., C.M., Scotland. Thesis, "The Choroid Plexuses of the Lateral Ventricles, their Anatomy, Functions, and Pathology (in relation specially to Insanity)."
1898 [1] Wilson, James Dunlop Octavus, M.B., C.M., Scotland. Thesis, "Adenoid Vegetations in the Nasopharynx; a Clinical and Pathological Study of 214 Cases."
1898 [1] Biernacki, John Thomson, M.B., C.M., India. Thesis, "Secondary Microbic Invasion occurring in the course of the Commoner Fevers."
1898 [1] Thomson, Henry Hyslop, M.B., C.M., Scotland. Thesis, "Epilepsy: a theory as to its probable cause, with some remarks regarding its relation to Insanity and Hysteria."
1898 [1] Webster, Alfred, M.B., C.M., England. Thesis, "Cardiac Inhibition in relation to Cerebral Anæmia and Epileptiform Crises."
1899 [1] Marshall, Campbell Samson, M.B., C.M., Scotland. Thesis, "Antistreptococcus Serum; its application in the treatment of Scarlatina Anginosa."
1899 [1] Primrose, Edward James, M.A., M.B., C.M., Scotland. Thesis, "Notes on the Method and on the Diagnostic Value of the Serum Reaction (Widal's Test) in Enteric Fever; with a record of 149 examinations of Serum made in 57 cases of Enteric Fever, and in 22 other cases."
1899 [2,3] Hawthorne, Charles Oliver, M.B., C.M., England. Thesis, "Studies in Clinical Medicine."
1899 [1] Blair, David, M.A., M.B., C.M., Scotland. Thesis, "Acromegaly with Insanity."
1899 [1] Gordon, John, M.B., C.M., Scotland. Thesis, "Tuberculin: as a remedy for Lupus, and its position as a Therapeutic Agent in the treatment of Phthisis Pulmonalis."
1899 [1] Kerr, Hugh, M.A., M.B., C.M., Scotland. Thesis, "Recurrent Insanity."
1899 [1] Scott, Robert, M.B., C.M., Australia. Thesis, "A review of Hydatid Disease in Australasia during the decennial period 1888-97."
1899 [2,3] M'Kendrick, John Souttar, M.B., C.M., Scotland. Thesis, "Zymolysis of Tissue, Physiological and Pathological, with a historical *résumé* of the nature and action of Enzymes."
1899 [2,3] Scobie, William, M.A., B.D., M.B., C.M., Scotland. Thesis, "The agglutinating reaction in Enteric Fever, with special reference to Prognosis."
1899 [1] Gray, John Gilchrist, M.B., C.M., Scotland. Thesis, "Albuminuria and Nephritis occurring in connection with Scarlet Fever in combination with Varicella, the Varicella occurring during the acute stage or during the period of convalescence."
1899 [1] Macharg, William Edgar, M.B., C.M., Scotland. Thesis, "An analytical account of fifty-seven cases of Puerperal Infection."
1899 [1] Ormond, James Service, M.B., Ch.B., Australia. Thesis, "Some results of treatment as illustrated by the Sphygmograph."
1900 [2,3] James Fairlie Gemmill, M.A., M.B., C.M., Scotland. Thesis, "A Teratological Study."
1900 [1] James Adam, M.A., M.B., C.M., Scotland. Thesis, "Remarks on the nature and treatment of Asthma."

[1] Commended for Thesis. [2] With Honours.
[3] Gained a Bellahouston Gold Medal.

1900 [1] William Carrick Allan, M.B., C.M., Scotland. Thesis, "Extra-Uterine Pregnancy."

1900 [1] John Laird Yuill, M.B., C.M., Scotland. Thesis, "On the Mental Deterioration in Epilepsy and Hemiplegia."

1900 [1] Leslie Buchanan, M.B., C.M., Ireland. Thesis, "Cyclitis: a Study of the inflammatory exudates into the vitreous body in cases of Cyclitis."

1900 [1] Malcolm Alexander M'Intyre Sinclair, M.B., C.M., England. Thesis, "A Study in Aphasia, with special reference to some of its transitory manifestations."

1900 [1] Annie Louise M'Ilroy, M.B., Ch.B., Ireland. Thesis, "Tubal Gestation: its pathology and diagnosis, as illustrated by the record of twenty-two cases."

1901 [1] Alfred George Newell, M.B., C.M., India. Thesis, "Insanitary Areas and Houses in Bombay and their relation to Plague, with schemes for improvement of Areas."

1901 [2] [3] David Louis Cairns, M.B., Ch.B., Scotland. Thesis, "Researches on the agglutinating and prophylactic properties of Blood Serum in cases of Plague, with observations on the haematology and bacteriology of the disease."

1901 [1] John Aitken, M.B., Ch.B., Scotland. Thesis, "Blood Counts in the New Born."

1901 [1] Arthur James Ballantyne, M.B., Ch.B., Scotland. Thesis, "Affections of the Eye due to injury by blunt objects."

1901 [1] George Coats, M.B., Ch.B., Scotland. Thesis, "Unilateral Haemorrhagic Retinitis and Haemorrhagic Glaucoma."

1901 [1] John Henderson, M.B., Ch.B., Scotland. "Thesis, "Observations on the Maternal Blood at term and during the puerperium."

1901 [1] James Donald Rae Monro, M.A., M.B., C.M., Scotland. Thesis, "A study of Appendicitis in general practice, with an analysis of thirty-six cases."

1902 [2] Alexander Robert Ferguson, M.B., C.M., England. Thesis, "The Leucocytosis of Variola, with a study of the haematopietic organs in the disease, and also of the lesions of the skin."

## BACHELORS OF MEDICINE (M.B.). HONOURS.

| | | | | | |
|---|---|---|---|---|---|
| 1866 | Robert W. Forrest, | Scotland. | 1877 | John Carlyle Johnstone, | Scotland. |
| ,, | Henry T. Pringle, | ,, | ,, | Edward D. M. Mackellar, | ,, |
| 1867 | Ebenezer Duncan, | ,, | 1878 | Alexander Fraser, | ,, |
| ,, | Joseph Coats, | ,, | ,, | James Morton, | ,, |
| ,, | James Finlayson, | ,, | ,, | William Partington, | ,, |
| 1868 | Thomas Barr, | ,, | ,, | Lawrence A. Waddell, | ,, |
| ,, | William MacLachlan, | ,, | 1879 | William K. Peden, | ,, |
| ,, | Angus Macmillan, | ,, | ,, | Ralph D. Stevenson, | Australia. |
| 1869 | James Coats, | ,, | 1880 | Andw. A. Hogarth, M.A., | Scotland. |
| 1871 | David Wilkie, | ,, | ,, | J. M'Gregor-Robertson, M.A., | ,, |
| ,, | John Aikman, | ,, | ,, | John Lindsay Steven, | ,, |
| 1872 | John D. Macdonald, | ,, | 1881 | John More Young, M.A., | ,, |
| ,, | Samson Gemmell, | ,, | 1882 | Robert Beith, | ,, |
| 1876 | Geo. S. Middleton, M.A., | ,, | 1883 | John Innes Dunlop, | ,, |
| ,, | Richard B. Macpherson, | ,, | 1884 | Charles O. Hawthorne, | England. |
| 1877 | Johan B. Knobel, | Africa. | 1886 | Alexander Bryce, | Scotland. |
| ,, | Donald Macphail, | Scotland. | ,, | Wm. Snodgrass, M.A., | U.S.A. |

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[1] Commended for Thesis. [2] With Honours. [3] Gained a Bellahouston Gold Medal.

| | | |
|---|---|---|
| 1886 | John H. Carslaw, M.A., | Scotland. |
| 1887 | William MacLennan, | ,, |
| 1891 | Hugh Galt, | ,, |
| ,, | Robert Currie Robertson, M.A., | ,, |
| 1892 | John Morton, | ,, |
| ,, | James Carslaw, M.A., | ,, |
| 1894 | Alexander MacLennan, | ,, |
| ,, | Wm. Stewart Cook, B.Sc., | ,, |
| ,, | Jas. C. Robertson, M.A., B.Sc., | ,, |
| ,, | Jas. Murray Young, | ,, |
| ,, | John Francis Robt. Gairdner, | ,, |
| ,, | John Wainman Findlay, | ,, |
| 1895 | Joshua Ferguson, M.A., | ,, |
| ,, | Henry Alex. Pattullo, | ,, |
| 1895 | Ernest A. Walker, M.A., | Scotland. |
| 1896 | John Knight, | ,, |
| ,, | Madge Speirs Maclean, | ,, |
| 1897 | John A. C. Macewen, B.Sc., | ,, |
| ,, | Thomas Hunter, M.A., B.Sc., | ,, |
| 1898 | Wm. Kilpatrick Hutton, M.A., | ,, |
| ,, | Robert Fullarton, M.A., | ,, |
| ,, | William Webster, | ,, |
| 1899 | Alex. Laurie Watson, M.A., | ,, |
| 1900 | CharlesCampbellCuthbert, M.A. | ,, |
| ,, | James Dunlop Lickley, | England. |
| 1901 | Alex. Dey Thompson, | Scotland. |
| ,, | William Macalister Brown, | ,, |

## BRUNTON MEMORIAL PRIZE OF £10,

*Awarded to the most distinguished Graduate in Medicine of the year.*

1880. John Lindsay Steven, M.B., C.M.
1881. John More Young, M.A., M.B., C.M.
1882. Robert Beith, M.B., C.M.
1883. John Innes Dunlop, M.B., C.M.
1884. Charles Oliver Hawthorne, M.B., C.M.
1885. Andrew Wilson, M.B., C.M.
1886. Alexander Bryce, M.B., C.M.
1887. William MacLennan, M.B., C.M.
1888. Landel Rose Oswald, M.B., C.M.
1889. William Robert Jack, B.Sc., M.B., C.M.
1890. George Lamb, M.B., C.M.
1891. Hugh Galt, M.B., C.M.
1892. John Morton, M.B., C.M.
1893. John Johnson Urwin, M.B., C.M.
1894. Alexander MacLennan, M.B., C.M.
1895. Joshua Ferguson, M.A., M.B., C.M.
1896. John Knight, M.B., C.M.
1897. John Allan Craigie Macewen, B.Sc., M.B., C.M. } Equal.
,, Thomas Hunter, M.A., B.Sc., M.B., Ch.B. }
1898. William Kilpatrick Hutton, M.A., M.B., C.M.
1899. Alex. Laurie Watson, M.A., M.B., Ch.B.
1900. Charles C. Cuthbert, M.A., M.B., Ch.B.
1901. Alex. Dey Thompson, M.B., Ch.B.

## THOMAS LOGAN MEDAL AND PRIZE,

*Awarded to the most distinguished Graduate in Arts of the year.*

1888. Ernest Findlay Scott, M.A.
1889. Alfred Ernest Garvie, M.A.
1890. John Edgar M'Fadyen, M.A.
1891. James Holm, M.A.
1892. Daniel Lamont, M.A.
1893. Gilchrist Gibb Alexander, M.A.
1894. Henry Noel Brailsford, M.A.
1895. William King Gillies, M.A.
1896. George Donald Valentine, M.A.
1897. Gavin Scott, M.A.
1898. John Lyle Morison, M.A.
1899. John Lochhead, M.A.
1900. Mabel Atkinson, M.A.
1901. Dougald Black M'Quistan, M.A.

## *XI.—DEGREE AND PRIZE LIST.*

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## LIST OF DEGREES

### Conferred in the various Faculties and of Prizes and Certificates of Honour Awarded in the several Classes of the University during the year ending 1st May, 1902, being the year in which was celebrated the Ninth Jubilee.

### DOCTORS OF DIVINITY (D.D.).

*June*, 1901.

Rev. Thomas Kingsmill Abbott, B.D., Litt.D., Trinity College, Dublin.
Rt. Rev. the Lord Bishop of Bath and Wells (George Wyndham Kennion, D.D.).
Rev. Professor Charles Augustus Briggs, D.D., Union Theological Seminary, New York.
Rev. Professor Francis Brown, Ph.D., D.D., Union Theological Seminary, New York.
Rev. Professor Thomas Kelly Cheyne, M.A., D.D., Oriel College, Oxford.
Rev. Professor Andrew Bruce Davidson, D.D., LL.D., United Free College, Edinburgh.
Rev. Professor Samuel Rolles Driver, D.D., Christ Church, Oxford.
Rev. Principal James Oswald Dykes, M.A., D.D., Westminster College, Cambridge.
Rev. Professor Robert Flint, D.D., LL.D., University of Edinburgh.
Rev. Professor Caspar René Gregory, University of Leipzig.
Rev. Thomas Kennedy, D.D., Moderator of the Assembly of the United Free Church of Scotland.
Rev. Professor Samuel M'Comb, M.A., Queen's College, Kingston, Canada.
Rev. Hugh Macmillan, D.D., LL.D., West U.F. Church, Greenock.
Professor Gaston Bonet Maury, University of Paris.
Rev. Professor John Eyton Bickersteth Mayor, D.C.L., University of Cambridge.
Rev. Donald Miller, M.A., Genoa.
Rev. Principal Ernest Morel, University of Neuchâtel.
Rev. Principal Robert Vaughan Pryce, M.A., LL.B., New College, London.
Rt. Rev. The Lord Bishop of Ripon (William Boyd Carpenter, D.D., D.C.L.).
Very Rev. Principal Alexander Stewart, M.A., D.D., St. Mary's College, St. Andrews.
Rev. Professor Henry Barclay Swete, D.D., Gonville and Caius College, Cambridge.
Very Rev. Andrew Tait, D.D., LL.D., Dean of Tuam.

*July*, 1901.

Rev. Thomas Nisbet, Presbyterian Minister, Brisbane.
Rev. John Meiklejohn, M.A., Presbyterian Minister, Melbourne.

*April*, 1902.

Rev. George Turnbull, M.A., Minister of the Parish of Dailly.

## DOCTORS OF LAWS (LL.D.).

*June*, 1901.

Mrs. Jessie Campbell, of Tullichewan Castle, Dumbartonshire.
Miss Emily Davies, 12 York Street, Portman Square, London, W.
Mrs. Isabella Elder, 6 Claremont Terrace, Glasgow.
Miss Agnes G. Weston, Royal Sailors' Rest, Portsmouth.
President Charles Kendall Adams, LL.D., University of Wisconsin, Madison.
Le Comte Eugène Goblet d'Alviella, Free University of Brussels.
President Alexander Anderson, M.A., Queen's College, Galway.
Philip James Bailey, Esq., Author of "Festus."
Professor James Mark Baldwin, Ph.D., Sc.D., Princeton University, New Jersey.
Right Hon. Lord Balfour of Burleigh, Secretary for Scotland.
Professor Isaac Bayley Balfour, M.D., D.Sc., University of Edinburgh.
Professor Charles Alfred Barbeau, University of Caen, France.
Professor Adolph Barkan, M.D., Cooper Medical College, San Francisco.
Right Hon. Earl Beauchamp, K.C.M.G. (formerly Governor of New South Wales), University of Sydney.
Principal Antoine Benoist, University of Montpellier, France.
Professor Carl Bezold, University of Heidelberg, Germany.
Professor James Blyth, M.A., Technical College, Glasgow.
Professor Edouard Brissaud, University of Paris.
Professor Waldemar Christopher Brögger, University of Christiania, Norway.
Professor John Bagnell Bury, M.A., Litt.D., Trinity College, Dublin.
Andrew Carnegie, Esq., Skibo Castle, Sutherlandshire.
Sir John Cheyne, K.C., Sheriff of Renfrew and Bute, Vice-Dean of Faculty of Advocates.
Professor John Chiene, M.D., University of Edinburgh.
The Hon. the Lord Provost of Glasgow, Samuel Chisholm, Esq.
Sir William Selby Church, Bart., M.D., Royal College of Physicians, London.
Professor Giacomo Ciamician, University of Bologna, Italy.
Professor Daniel John Cunningham, M.D., D.C.L., F.R.S., Trinity College, Dublin.
Rev. Principal George Cunninghame Monteath Douglas, D.D., United Free Church College, Glasgow.
The Most Noble the Marquis of Dufferin and Ava, G.C.B., M.P., D.C.L., F.R.S.
Professor Nicolas Egoroff, Imperial Military Academy of Medicine, St. Petersburg.
Professor William Gilson Farlow, M.D., LL.D., American Academy of Arts and Sciences, Boston, Mass.
Principal George Carey Foster, B.A., F.R.S., University College, London.
Le Comte de Franqueville, President of the Institute of France.
Professor Thomas Richard Fraser, M.D., University of Edinburgh.
Professor Charles Mills Gayley, B.A., Litt.D., University of California, Berkeley.
Sir Archibald Geikie, F.R.S., F.G.S., D.C.L.
The Right Hon. the Earl of Glasgow, G.C., M.G., formerly Governor of New Zealand.
Robert Gourlay, Esq., Banker in Glasgow.
Major-General Sir Ian Hamilton, C.B.
Principal Alfred Hopkinson, M.A., B.C.L., K.C., Owens College, Manchester.
Professor Ambrosius Arnold William Hubrecht, Sc.D., LL.D., University of Utrecht.
Sir Archibald Hunter, K.C.B.
Professor Martin Howy Irving, M.A., University of Melbourne.
Henry Jackson, Litt.D., LL.D., Trinity College, Cambridge.

Professor Franz Kielhorn, LL.D., C.I.E., University of Göttingen.
Rev. Professor William Dool Killen, D.D., Belfast Presbyterian College.
Professor Hugo Kronecker, University of Bern.
Constantine de Kroustchoff, State Councillor and Professor Extraordinary of the Imperial Military Academy of Medicine, St. Petersburg.
Joseph Larmor, M.A., D.Sc., F.R.S., St. John's College, Cambridge.
Principal Oliver Joseph Lodge, D.Sc., LL.D., F.R.S., University of Birmingham.
Professor Joseph Loth, University of Rennes.
President James Loudon, LL.D., D.C.L., University of Toronto.
Professor Ivan Loutchitzky, University of Kieff.
Sir William MacCormac, Bart., K.C.B., K.C.V.O., President of the Royal College of Surgeons, London.
Professor James Gordon MacGregor, M.A., D.Sc., F.R.S., Dalhousie University, Halifax, Nova Scotia.
Principal John Yule Mackay, M.D., University College, Dundee.
Sir Alexander Campbell Mackenzie, Principal of the Royal Academy of Music, London.
Rev. Dugald Mackichan, D.D., Vice-Chancellor of the University of Bombay.
Professor Ernest Mahaim, University of Liége.
The Right Hon. Sir Herbert Eustace Maxwell of Monrieth, Bart., M.P.
Major-General Patrick Maxwell, B.A., Bath.
Adolf Meyer, M.D., Clark University, Worcester, Mass.
Professor Johannes von Mikulicz-Radecki, University of Breslau.
James Milligan, M.A., Headmaster of Glasgow High School for Girls.
Professor Edmund James Mills, D.Sc., F.R.S., Technical College, Glasgow.
William Mitchell, Esq., for many years Vice-Chairman of the Glasgow School Board.
Professor Léon Morel, University of Paris.
Professor Vaclav Emanuel Mourek, University of Prag.
James Augustus Henry Murray, M.A., D.C.L., Editor of the "Oxford English Dictionary."
Professor Raffaello Nasini, University of Padua.
Professor Henri Edouard Naville, University of Geneva.
Professor Alfred Nerincx, Catholic University of Louvain.
Ernest Nys, LL.D., Palace of Justice, Brussels.
Emeritus-Professor Sir Herbert Stanley Oakeley, Mus.D., D.C.L.
Professor Alexander Ogston, M.D., C.M., University of Aberdeen.
Professor John Perry, D.Sc., F.R.S., Royal College of Science, London.
Principal Sir George Hare Philipson, M.D., D.C.L., University of Durham.
Sir Francis Powell, President of the Royal Scottish Society of Painters in Water Colours.
Professor Frederick York Powell, M.A., Oriel College, Oxford.
Professor Heinrich Quincke, University of Kiel.
Sir William Henry Rattigan, LL.D., K.C., Punjab University, Lahore.
The Right Hon. Baron Reay, G.C.S.I., LL.D., G.C.I.E., President of the Royal Asiatic Society, and of University College, London.
Principal Henry Rudolf Reichel, M.A., University College of North Wales, Bangor.
Sir James Reid, Bart., K.C.B., G.C.V.O., M.D., Physician in Ordinary to the late Queen Victoria.
Dr. Julio Nathanael Reuter, University of Helsingfors.
Professor Carlo Reymond, University of Turin.
Professor Seved Ribbing, M.D., University of Lund.
Rev. Principal Archibald Robertson, D.D., King's College, London.

Sir Henry Enfield Roscoe, D.C.L., F.R.S., Vice-Chancellor of the University of London.
Professor Edmond Rossier, University of Lausanne.
Paul Rottenburg, Esq., Merchant in Glasgow.
Charles Gilchrist Russell, Esq., Editor of the *Glasgow Herald*.
Professor Jōji Sakurai, University of Tokyo.
Professor Johan Henrik Emil Schück, Ph.D., University of Upsala, Sweden.
Professor Thomas Day Seymour, LL.D., Yale University, New Haven, Conn.
The Hon. Mr. Justice Horatio Hale Shephard, M.A., University of Madras.
Professor Marian Smoluchowski-Smolan, University of Lemberg.
James Hutchison Stirling, LL.D., Philosophical Writer, and first Gifford Lecturer (1888-1890) in the University of Edinburgh.
The Right Hon. Baron Strathcona, G.C.M.G., High Commissioner for Canada.
Professor Peter Guthrie Tait, M.A., D.Sc., University of Edinburgh.
Professor Joseph John Thomson, D.Sc., F.R.S., University of Cambridge.
John Isaac Thornycroft, Esq., F.R.S., Naval Architect and Engineer.
Professor Clement Arkadijevic Timiriazeff, University of Moscow.
The Hon. Charlemagne Tower, LL.D., Ambassador of the United States at St. Petersburg.
Anthony Traill, M.D., LL.D., Trinity College, Dublin.
Professor Hugh Walker, M.A., St. David's College, Lampeter, Wales.
Professor Robert Mark Wenley, M.A., D.Sc., D.Phil., University of Michigan, Ann Arbor.
Professor Horatio Stevens White, Cornell University, Ithaca, N.Y.
Principal Michael Johnson White, M.A., Canning College, Lucknow, University of Allahabad.
Hofrath, Professor Julius Wiesner, University of Vienna.
Sir John Williams, Bart., M.D., Emeritus-Professor, University College, London.
Professor August Wiktor Witkowski, University of Cracow.

*July*, 1901.

James Dunsmure, M.D., President of the Royal College of Surgeons, Edinburgh.
William Mitchell Ramsay, M.A., LL.D., D.C.L., Professor of Humanity in the University of Aberdeen.

*April*, 1902.

John Aitken, F.R.S., Ardenlea, Falkirk.
Professor Ebenezer Charlton Black, University of Boston, Mass., U.S.A.
Professor Paul Brouardel, University of Paris.
Robert Crawford, formerly one of the Bailies of the City of Glasgow.
Professor Wallace Martin Lindsay, M.A., University of St. Andrews.
Professor Henri Logeman, University of Ghent.
James Stevenson, Hailie, Largs.

## BACHELORS OF DIVINITY (B.D.).

*April*, 1902.

David Logan Blair, M.A.
George Condie, M.A.
William Fulton, M.A., B.Sc.
William Topping Morton, M.A.
John Muir, M.A.

## BACHELORS OF LAWS (LL.B.).

*November*, 1901.

Walter Arroll, M.A.
Hugh Brown, M.A.
Thomas Walter Donald, M.A.[1]
John Middleton, M.A.

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[1] With distinction.

*April*, 1902.

Norman Carrick Anderson, M.A.
Hugh Reid Buchanan, M.A.[1]
Donald Grant Hodge, M.A.
Norman Graham Lindsay, M.A.
John Dewar M'Kay, M.A.
David Baird Smith, M.A.
Ernest Gardiner Smith, M.A.
George Donald Valentine, M.A.[1]

## BACHELORS OF LAW (B.L.).

*April*, 1902.

William Christie Cowan.
John Robertson Johnston.
Alexander Francis Young.

## DOCTORS OF MEDICINE (M.D.).

*July*, 1901.

Thomas Bell, M.B., C.M., Scotland. Thesis, "Arsenical Poisoning in Beer Drinkers."

Thomas Colvin, M.B., C.M., Scotland. Thesis, "Notes on an outbreak of Bubonic Plague in Glasgow in August, 1900, with a Study of Enteric Fever in its initial stage and other cases that simulated Plague."

Robert Home Henderson, M.B., C.M., Scotland. Thesis, "The Choice of an Anæsthetic."

John Coulson Howie, M.A., M.B., C.M., Scotland. Thesis, "Puerperal Eclampsia, its Symptomatology, Pathology, and Treatment, with Illustrative Cases."

James Jack, M.B., C.M., Scotland. Thesis, "Albuminuria in Pregnancy, with special reference to Puerperal Eclampsia, with Cases."

George Jubb, M.B., C.M., Scotland. Thesis, "Antiseptic Methods in the Treatment of Enteric Fever."

John Lindsay, M.A., M.B., C.M., Scotland. Thesis, "A Study of Atrophic Development."

Daniel M'Nicol, M.B., C.M., Scotland. Thesis, "One Hundred Years of Vaccination."

William M'Gregor Young, M.A., M.B., C.M., Scotland. Thesis, "Ether Anæsthesia."

*November*, 1901.

### I. With Honours.

David Louis Cairns, M.B., Ch.B., Scotland. Thesis, "Researches on the agglutinating and prophylactic properties of Blood Serum in cases of Plague, with observations on the hæmatology and bacteriology of the disease."

### II. With Commendation.

John Aitken, M.B., Ch.B., Scotland. Thesis, "Blood Counts in the New Born."

Arthur James Ballantyne, M.B., Ch.B., Scotland. Thesis, "Affections of the Eye due to injury by blunt objects."

George Coats, M.B., Ch.B., Scotland. Thesis, "Unilateral Hæmorrhagic Retinitis and Hæmorrhagic Glaucoma."

John Henderson, M.B., Ch.B., Scotland. Thesis, "Observations on the Maternal Blood at term and during puerperium."

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[1] With Distinction.

James Donald Rae Monro, M.A., M.B., C.M., Scotland. Thesis, "A Study of Appendicitis in general practice, with an analysis of thirty-six cases."

### III. Ordinary Degree.

Agnes Forbes Blackadder, M.A., M.B., Ch.B., Scotland. Thesis, "Six cases of Acute Dilatation of the Heart occurring in Children."

William Brodie Brodie, M.B., C.M., Scotland. Thesis, "The action of Oxalates upon and the relation of Calcium Salts to Muscle."

William Cullen, M.B., C.M., Scotland. Thesis, "Insomnia: Clinical Observations and some Therapeutic Suggestions."

Robinson Simpson Dickson, M.B., C.M., England. Thesis, "Observations on a case of Actinomycosis."

Charles Herbert Hall, M.B., C.M., England. Thesis, "The medical and allied references in the writings of Chaucer."

John Hepburn Lyell, M.B., C.M., Scotland. Thesis, "A Study of some Clinical and Pathological aspects of Scarlet Fever."

Eva M'Call, M.B., Ch.B., Ireland. Thesis, "Some account of the recent Epidemic of Beer Poisoning as observed among patients in the Salford Union Infirmary."

Roderick Alexander Macleod, M.B., C.M., Scotland. Thesis, "Acute Encephalitis."

Edward James Morris, M.B., C.M., Wales. Thesis, "Carbonic Oxide Poisoning in mines, with special reference to the Tylorstown Explosion."

William Roxburgh, M.B., C.M., Scotland. Thesis, "Organotherapy."

Alexander Bankier Sloan, M.B., Ch.B., Scotland. Thesis, "Observations on one hundred consecutive cases of Enteric Fever."

Hugh George Stewart, M.B., C.M., Scotland. Thesis, "The Finsen Treatment of Lupus Vulgaris—the benefits to be derived from it, comparison between it and other ways of treating the disease."

Ernest Watt, M.B., Ch.B., Scotland. Thesis, "The Prognosis and Treatment in Scarlatina."

*April*, 1902.

### I. With Honours.

Alexander Robert Ferguson, M.B., C.M., England. Thesis, "The Leucocytosis of Variola with a study of the haematopietic organs in the disease, and also of the lesions of the skin."

### II. Ordinary Degree.

John Knight, M.B., C.M., Scotland. Thesis, "Smallpox: its diagnosis and Public Health administration."

Dugald Campbell Watt, M.B., C.M., Scotland. Thesis, "Variola as it affects the native races of South Africa, with a discussion on the existence of Amaas or Kaffir Pox."

## BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.).

*July*, 1901.

| | | | |
|---|---|---|---|
| Duncan Davie, | Scotland. | John Poynter Small, | Scotland. |
| William Henry Ferran, | Ireland. | David Wallace Smith, | ,, |
| Shushil Kumar Roy, | India. | | |

*November*, 1901.—George Wardlaw Milne, Scotland.

## BACHELORS OF MEDICINE AND BACHELORS OF SURGERY (M.B., CH.B.).

*July*, 1901.

### I. HONOURS.

| | |
|---|---|
| Alexander Dey Thompson, | Scotland.[1] |
| William Macalister Brown, | Scotland. |

### II. COMMENDATION.

| | |
|---|---|
| James M'Pherson, M.A., | Scotland. |
| Samuel James Cameron, | ,, |
| Albert Ernest Wainwright, | England. |
| Edward Magoveny, | Ireland. |
| Joseph Goodwin Tomkinson, | England. |
| Robert Ramsey, | Scotland. |
| Donald Steel, | Australia. |
| James Walker, | Scotland. |
| William Alexander Milne, | ,, |

### III. ORDINARY DEGREE.

| | |
|---|---|
| Martha Adams, | Ireland. |
| John Anderson, | Scotland. |
| Thomas Anderson, | Newfoundland. |
| William Archibald, | Scotland. |
| James Oastler Barclay, | ,, |
| John Stoddart Barr, | ,, |
| William Herbert Brown, | ,, |
| George Frederick Buchan, | ,, |
| Ernest Cecil Burnett, | ,, |
| Patrick Thomas Cairns, | ,, |
| Robert David Campbell, | ,, |
| James Bertie Wylie Cook, | ,, |
| Ernest Hamilton Cramb, | ,, |
| Andrew Currie, | ,, |
| David Beattie Davidson, | ,, |
| James Davidson, M.A., | ,, |
| Gregor Hugh Grant Davie, | ,, |
| Alexander Doig, | ,, |
| Reginald Nairn Dunlop, | ,, |
| George Balfour Eadie, | ,, |
| William Elder, | ,, |
| William Watt Farrar, | England. |
| John Forrest, | Scotland. |
| John Andrew Garden, | ,, |
| Andrew Parlane Granger, | ,, |
| John Gregor, | ,, |
| Mabel Hardie, | England. |
| George Pillans Harlan, | Scotland. |
| Francis Joseph Henry, | ,, |
| Douglas William Hunter, | ,, |
| Matthew Hunter, | ,, |
| William Johnstone Isbister, | ,, |
| Thomas Hamilton Jack, | ,, |
| Daniel Ross Kilpatrick, | ,, |
| David Kyle, M.A., | Scotland. |
| John Lambie, | ,, |
| Frank Joseph Lochrane, | ,, |
| James William M'Dougall, | ,, |
| Thomas M'Laren, | ,, |
| Hugh Archibald M'Lean, | ,, |
| George Williamson M'Millan, | ,, |
| Jacob Mains, | England. |
| James Grant Millar, | Scotland. |
| Robert Joseph Mills, | ,, |
| William Archibald Mills, | ,, |
| Samuel Johnston Moore, | ,, |
| Alice Moorhouse, | New Zealand. |
| Alan Howie Muir, | Scotland. |
| Robert Paterson, | ,, |
| John Paton, | ,, |
| James King Patrick, | ,, |
| Mary Janet Pirret, | ,, |
| Peter Mackenzie Reid, | ,, |
| William Robertson (Kilmarnock), | ,, |
| Thomas Ritchie Rodger, | ,, |
| Charles James Ross, B.A., | Ireland. |
| David Shannon, | Scotland. |
| Agnes Bankier Sloan, | ,, |
| Elizabeth Macfarlane Sloan, | ,, |
| John Strathearn, | ,, |
| James Nathanael Todd, | ,, |
| John Wright Turner, | ,, |
| Robert Warden Valentine, | ,, |
| George Smith Wallace, | ,, |
| Peter Millar Waugh, | ,, |
| William Webster Watt Wilson, | ,, |

*November*, 1901.

| | |
|---|---|
| Robert Wellwood Auld, | Scotland. |
| John James Young Campbell, | Isle of Man. |
| Edward Seymour Chapman, | England. |
| George Herbert Clark, | Scotland. |
| Duncan Johnston Fletcher, | ,, |

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[1] Mr. Thompson gains the Brunton Memorial Prize of Ten Pounds, awarded to the most distinguished Graduate in Medicine of the year.

| | |
|---|---|
| Thomas Forsyth, | Scotland. |
| William Gemmill, | England. |
| James Dickson Gourlay, | Scotland. |
| Archibald Gow, | ,, |
| Janet Bisland Higgins, | ,, |
| Alexander Linn, | ,, |
| Walter James M'Feat, | ,, |
| William Ferguson M'Glashan, | ,, |
| Karen Margrethe Myhre, | Norway. |
| Robert Orr, | Scotland. |
| Mary Emma Potter, | Ireland. |
| Andrew Reid, | Scotland. |
| Elizabeth Ness MacBean Ross, | England. |
| John Stewart, M.A., | Scotland. |
| Robert Rennie Swan, | ,, |
| Robert George White, M.A., B.Sc., | ,, |
| James Wilson, | ,, |
| William Robertson Wylie, | ,, |
| Henrietta Fraser Young, | ,, |

## DOCTORS OF SCIENCE (D.Sc.).

*April*, 1902.

David Runciman Boyd, B.Sc., Ph.D.
Johannes Bruhn, B.Sc.
William Craig Henderson, M.A., B.Sc.
James Muir, B.Sc., B.A.
Herbert Charles Sadler, B.Sc.

## BACHELORS OF SCIENCE (B.Sc.).

*November*, 1901.

*In Pure Science.*

Robert Donald.
Malcolm Hutton, M.A.
William Hyslop, M.A.[1]
Jane Hamilton M'Ilroy, M.A.
John Muir.

*In Engineering.*

William Bryson.
Robert Thomson Neilson.
James Neilson Stirling.[1]
Andrew Hepburn Whitelaw.
Alfred John Wilson.[2]

*April*, 1902.

*In Pure Science.*

Frederick Mort, M.A.
George Goldie Smith.
Alfred Walter Stewart.

*In Engineering.*

William George Burn.
James Miller Clark, M.A., B.Sc. (Pure Sc.).[3]
John Fairlie.
John Clowes Fairlie.
Thomas Macmillan Hunter, M.A.[4]
Duncan Robert MacLachlan.[5]
Thomas Bonner Morley.[6]
James Muirhead.[5]
James Valence Nimmo.[7]
Alexander Williamson.
Robert Ernest Workman.[4]
John Graham Young.

*In Agriculture.*

James Bradshaw.
Alexander Graham.
Edward Porter.

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[1] With Special Distinction in Mathematics and Natural Philosophy.

[2] With Special Distinction in (*a*) Mathematics, (*b*) Engineering and Drawing.

[3] With Special Distinction in Astronomy.

[4] With Special Distinction in Mathematics.

[5] With Special Distinction in Engineering Laboratory, Electrical.

[6] With Special Distinction in (*a*) Mathematics, (*b*) Natural Philosophy, (*c*) Engineering and Drawing.

[7] With Special Distinction in Natural Philosophy.

## CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

*November*, 1901.

William Bryson.
Ernest Whinery Gunson.
Robert Thomson Neilson.
Andrew Hepburn Whitelaw.
Alfred John Wilson.

*April*, 1902.

James Miller Clark, M.A., B.Sc.
John Fairley.
Thomas Macmillan Hunter, M.A.[1]
James Muirhead.
Alexander Williamson.
Robert Ernest Workman.
John Graham Young.

## MASTERS OF ARTS (M.A.).

*November*, 1901.

### I. WITH HONOURS.

*With First-Class Honours in Mathematics and Natural Philosophy, and Second-Class Honours in Classics.*

Dougald Black M'Quistan.

*With First-Class Honours in Classics.*

Steuart Napier Miller.

*With First-Class Honours in English.*

Charles Alexander Young.

*With First-Class Honours in Economic Science (with Moral Philosophy).*

Stanley Horsfall Turner.

*With Second-Class Honours in Classics.*

John Justice Gemmell.
Thomas Graham.
James George MacDonald.
James Moyes.

*With Second-Class Honours in Mental Philosophy.*

William Richard Wiseman.

*With Second-Class Honours in Mathematics and Natural Philosophy.*

James Neilson Stirling.

*With Second-Class Honours in Modern Languages.*

Catherine Bennie.

*With Second-Class Honours in Economic Science (with History).*

James Hall Steel.

### II. ORDINARY DEGREE.

John Anderson.
William Auld.
Robert William Bell.
Walter William Aitken Bell.
David Stewart Brunton.
Jessie Burnside.
David Craik.
Robert Wilson Dale.
John Shaw Dunn.
David Forfar.
William Houston.
Lucy Perfect Johnston.

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[1] With Distinction.

Archibald King.
Agnes Charlotte Lamb.
Isaac Whiteford Lightbody.
Robert M'Laren.
Hector MacLean.
Daniel M'Leod.
Andrew M'Millan.
John Malcolm M'Murtrie.
George Macnab.
George Mitchell.
James Alfred Mitchell.
Margaret Jeffrey Motherwell.
Graham Park.
James Robertson.
William Roy.
John Smith (Falkirk).
Walter Thomas Patrick Spens.
John Stirling.
Robert Fairley Strathern.
David Thomson.
Thomas Winning.
Archibald Young.
John Finlayson Young.

*April*, 1902.

### I. WITH HONOURS.

*With First-Class Honours in Modern Languages.*

Margaret Aitkenhead Scott.

*With Second-Class Honours in Mathematics and Natural Philosophy.*

James M'Nabb.

*With Second-Class Honours in English.*

Helen Maxwell Armour.
Alexander Mackinnon.

*With Second-Class Honours in History.*

Edith Margaret Lindsay.

### II. ORDINARY DEGREE.

Henry Harper Adam.
William Aird.
George Aitken.
Thomas Anderson.
Robert Archibald.
James Bain.
Margaret Muir Bickett.
Mary Blackhall.
Claud Alexander Boyce.
John Chalmers Brechin.
Andrew Brown.
James Walter Buchan.
Thomas Bell Cameron.
William Ernest Cameron.
William Alexander Campsie.
Frances Sara Chambers.
Alexander Chisholm.
Mabel Beatrice Clark.
William Clark.
Andrew Cranston.
Archibald Crawford.
Arthur Henry Cromar.
John Docherty.
Jemima Wright Downie.
Charles William Farish.
William Ferguson.
Douglas Ferrier.
John Gibson.
Sinclair Grant.
John Isdale Greig.
Duncan Davidson Hair.
Alexander Hamilton Harley.
John Fraser Horn.
Lucy Hay Isbister.
William Robert Jarvie.
John Johnston Hunter Johnston.
Elizabeth Craig Kerr.
Hugh Kirkhope.
Robert White Leckie.
Robert Henry Macalister.
Jane M'Arthur.
John M'Lachlan M'Gauley.
Neil MacInnes.
Alexander Matheson M'Iver.
John M'Laughlin.
David M'Millan.
John M'Millan.
John M'Neil.
John Campbell White M'Neill.
Archibald Naismith Main.
John Mair (Pollokshields).
William Hislop Manson.
John Martin.
David Brown Mungo.

James Arthur Neilson.
John Neilson.
James Smith Porteous.
Edward Boase Rattray.
Margaret Thomson Robertson.
Thomas Graham Robertson.
Alfred Sands Rogen.
Agatha Rachel Runciman.
Robert Scott (Paisley).
William Scott (Glasgow).
Herbert Muir Simpson.
James Sinclair.
Mary Ann Campbell Skinner.
John Stewart.
Thomas Brown Thorne.
James Gibb Watson.
Alexander Robertson Wilson.
George Baird Wishart.
John Wishart.
George Wright.

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## *DEPARTMENTAL CERTIFICATES.*

### I. FOR DEGREE OF B.D.

FIRST DEPARTMENT—*October*, 1901.

Blair, David Logan, M.A.
Condie, George, M.A.
Fulton, William, M.A., B.Sc.
Muir, John, M.A.

FIRST DEPARTMENT—*April*, 1902.

Morton, William Topping, M.A.

SECOND DEPARTMENT—*April*, 1902.

Blair, David Logan, M.A.
Condie, George, M.A.
Fulton, William, M.A., B.Sc.
Morton, William Topping, M.A.
Muir, John, M.A.
Wilson, James Robertson Sweet, M.A.

### II. FOR DEGREES IN LAW.

#### OLD REGULATIONS.

#### FOR DEGREE OF B.L.

IN CIVIL LAW.

*October*, 1901.—Turnbull, John Colledge.

*April*, 1902.

Dunbar, James.
Young, Alexander Francis.

IN LAW OF SCOTLAND.

*October*, 1901.—Turnbull, John Colledge.

*April*, 1902.—Young, Alexander Francis.

#### NEW REGULATIONS.

#### I. FOR DEGREE OF LL.B.

IN JURISPRUDENCE.

*October*, 1901.

Anderson, Norman Carrick, M.A.
Buchanan, Hugh Reid, M.A.
Donald, Thomas Walter, M.A.
Hodge, Donald Grant, M.A.
M'Donald, Alexander, M.A.

*April,* 1902.

Barnes, Joseph, M.A.
Dow, Samuel Hugh, M.A.
Gillan, William Woodburn, M.A.
Macqueen, Robert Haldane, B.A.
Valentine, George Donald, M.A.
Wilkie, George, M.A.

### IN PUBLIC INTERNATIONAL LAW.

*October,* 1901.

Brown, Hugh, M.A.
Hodge, Donald Grant, M.A.
Scrymgeour, James, M.A.

*April,* 1902.

Anderson, Norman Carrick, M.A.
Austin, James, M.A.
Barnes, Joseph, M.A.
Dow, Samuel Hugh, M.A.
Gillan, William Woodburn, M.A.
King, Maurice John, M.A.
Nicol, Roderick Macdonald, M.A.
Wilkie, George, M.A.

### IN CIVIL LAW.

*October,* 1901.

Bannatyne, Douglas Alexander, B.A.
Crawford, Hamilton, M.A.
Wilkie, George, M.A.

*April,* 1902.

Lowe, Theodore David, M.A.
Mackay, Alexander Borthwick, M.A.
Macqueen, Robert Haldane, B.A.
Roy, William, M.A.
Scott, Robert, M.A.
Spreull, George John, M.A.

### IN LAW OF SCOTLAND.

*October,* 1901.—Wilkie, George, M.A.

*April,* 1902.

Austin, James, M.A.
Bell, Robert William, M.A.
Crawford, Hamilton, M.A.
Lindsay, Norman Graham, M.A.
Mackay, Alexander Borthwick, M.A.
M'Kay, John Dewar, M.A.
Nicol, Roderick Macdonald, M.A.
Scott, Robert, M.A.
Waddell, James, M.A.

### IN CONSTITUTIONAL LAW AND HISTORY.

*October,* 1901.

Austin, James, M.A.
Bannatyne, Douglas Alexander, B.A.
Crawford, Hamilton, M.A.

*April,* 1902.

Anderson, Norman Carrick, M.A.
Johnston, John Dalrymple, M.A.
King, Maurice John, M.A.
Lowe, Theodore David, M.A.
Nicol, Roderick Macdonald, M.A.
Roy, William, M.A.
Smith, David Baird, M.A.
Spreull, George John, M.A.
Young, Peter Taylor, M.A.

### IN CONVEYANCING.

*October,* 1901.

Arroll, Walter, M.A.
Berry, William Boyd, M.A.
Donald, Thomas Walter, M.A.
Middleton, John, M.A.

*April*, 1902.

Barnes, Joseph, M.A.
Buchanan, Hugh Reid, M.A.
Hodge, Donald Grant, M.A.
Smith, David Baird, M.A.
Smith, Ernest Gardiner, M.A.
Valentine, George Donald, M.A.
Wilkie, George, M.A.

### IN INTERNATIONAL PRIVATE LAW.

*October*, 1901.

Anderson, Norman Carrick, M.A.
Austin, James, M.A.
Bannatyne, Douglas Alexander, B.A.
Berry, William Boyd, M.A.
Brown, Hugh, M.A.
Buchanan, Hugh Reid, M.A.
Donald, Thomas Walter, M.A.
M'Donald, Alexander, M.A.
Middleton, John, M.A.
Valentine, George Donald, M.A.

*April*, 1902.

Johnston, John Dalrymple, M.A.
M'Kay, John Dewar, M.A.
Young, Peter Taylor, M.A.

### IN FORENSIC MEDICINE.

*October*, 1901.

Arroll, Walter, M.A.
Scrymgeour, James, M.A.
Valentine, George Donald, M.A.

*April*, 1902.

Barnes, Joseph, M.A.
Bell, Robert William, M.A.
Crawford, Hamilton, M.A.
Hodge, Donald Grant, M.A.
Lindsay, Norman Graham, M.A.
Waddell, James, M.A.

## II. FOR DEGREE OF B.L.

### IN LOGIC.

*April*, 1902.

Foulis, James Bell.
Thompson, William.

### IN MORAL PHILOSOPHY.

*October*, 1901.

Cochran, Campbell.
Kerr, James.

*April*, 1902.—Foulis, James Bell.

### IN ENGLISH.

*October*, 1901.

Gilmour, Andrew.
Smith, William France.

### IN FRENCH.

*October*, 1901.—Chalk, George Brisbane.

### IN MATHEMATICS.

*April*, 1902.—Kerr, James.

### IN CIVIL LAW.

*October*, 1901.—Laidlaw, Douglas Grant, M.A.

*April*, 1902.

Chalk, George Brisbane.
Johnston, John Robertson.
Macqueen, Robert Haldane, B.A.
Ralston, Cosmo Augustus.

### IN LAW OF SCOTLAND.

*April*, 1902.

Bell, Robert William, M.A.
Chalmers, John Stuart.
Menzies, Henry Lindsay.
Thomson, Kyle, M.A.

### IN CONVEYANCING.

*April*, 1902.

Chalk, George Brisbane.
Cowan, William Christie.
Johnston, John Robertson.

### IN FORENSIC MEDICINE.

*April*, 1902.

Bell, Robert William, M.A.
Menzies, Henry Lindsay.
Ralston, Cosmo Augustus.

## III. FOR DEGREES OF M.B., CH.B.

### FIRST PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (B., Botany; Z., Zoology; P., Physics; C., Chemistry):

*October*, 1901.

Aitken, John Andrew (B., Z.).
Alexander, Bethia Shanks (P.).
Allan, George Allison (B., Z., P., C.).
Anderson, Robert (Z.).
Baird, James Henderson, B.A. (B., P.).
Barnes, Edgar (B., P.).
Beaton, George Duncan Morrison (B.).
Bosworth, John Charles (C.).
Carmichael, Donald Livingstone (B., P.)
Carmichael, John Paterson (B., C.).
Chislett, Charles Game Angus (Z., P.).
Clark, Donald (B., P.).
Clark, Jeannie Thomson (B., Z.).
Cowie, James Alexander, B.A., B.Sc. (B.)
Crawford, Arthur Muir (B., P.).
Dempster, Harold Windley (B., Z., P., C.).
Dewar, Robert Scott, M.A. (B.).
Duffy, Walter, M.A. (Z., P.).
Dunn, John Shaw (Z.).
Dyke, Eric John (B., C.).
Dyke, Hamilton William (B., P.).
Fairley, James (B., P.).
Fairlie, Harry Prescot (B., P.).
Ferguson, Alexander Burns (B., P.).
Forrest, Thomas Henderson (B., P.).
Georgeson, James Wilfred (B.)
Gilbert, William (B., P.).
Glaister, Joseph (C.).
Graham, Alexander (Z.).
Greig, John Isdale (B., Z.).
Grier, William (B., P.).
Guthrie, Robert Neil (B. P.).
Hammond, Charles Francis Dyer (P., C.).
Hammond, John (B., Z.).
Hauxwell, Frank (B., P.).
Hill, Robert M'Cowan (C.).
Hird, Annie Rennie (B., Z.).
Hislop, Lawrence (C.).
Howell, Ralph (C.).
Hudson, Rose Isobel (B., Z.).
Hunter, Alexander (P.).
Hunter, David Guthrie, M.A., (Z.).
Jack, William Boyd (B. P.).
Jones, Arnold Ernest (Z., C.).
Kelly, Percy James (B., Z.).
Keys, John (B., P.).
Kidd, James Dunlop (B., P.).
Kirkland, James Towers (P.)
Kirkwood, William Love (B., P.).
Lowe, Peter, M.A., B.Sc. (B., Z.).
Lucas, Katharine Robina Margaret (P.).

Macaulay, Angus (Z., C.).
M‘Callum, John Duncan, M.A. (B., Z.).
M‘Cartney, John (B., Z.).
M‘Cosh, Thomas (B., Z.).
MacDonald, David (B., P.).
M‘Ewan, Duncan (B., P.).
Macintyre, John (B., P.).
Mackay, Finlay John (P., C.).
MacNaught, Hugh (B., P.).
Macpherson, Richard Cameron (Z., P.).
M‘Phun, Agnes (C.).
M‘Vail, Elizabeth Maud (B., Z.).
Maguire, Peter (B., Z., P., C.).
Millar, Margaret Walker (P., C.).
Miller, John (B., P.).
Miller, William (B., P.).
Milligan, Henry Joseph (B., P.).
Mitchell, Robert Wright (B., P.).
Moffat, John (Z.).
Morrison, Kenneth (P., C.).
Oversby, Edith (B.).
Paxton, Arthur Geoghegan (B., P.).
Rankin, Thomas Thomson (B., P.).
Reid, Daniel M‘Kinlay (B.).
Reis, Vera Dagmar (B., Z.).
Renton, James Mill (B., P.).
Robertson, Arthur (B., P.).
Robertson, James Henry Anderson (B.).
Rolland, William (Z., C.).
Russell, Alexander Cappie (B., P.).
Russell, John Cooper, M.A. (B., C.).
Simpson, James Charles Donaldson (P., C.).
Slater, Robert Alexander (Z.).
Smellie, Lily (P.).
Smith, Thomas Baillie (B., P.)
Stewart, Arthur Anderson (P., C.).
Stewart, Daniel (B., P., C.).
Stewart, John Logan, M.A. (B., Z., P., C.).
Strain, Thomas (B., Z., C.).
Stuart, William Alexander (B., P.).
Sutherland, Joseph Roderick (B., P.).
Taylor, Margaret Baillie (B., Z., P.).
Taylor, William Robb (B., C.).
Thom, Thomas (B., P.).
Thomson, Charles Samson (B., P.).
Todd, Robert (B., P.).
Turner, William Young, M.A. (B., Z.).
Welsh, James Kennedy (Z.).
Young, George, (B., P.).

*April*, 1902.

Anderson, George Victor (P., C.).
Anderson, James Montgomery (Z., C.).
Andrew, Jeannie Montgomery (P., C.)
Arnott, Andrew Hamilton (P.).
Beaton, George Duncan Morrison (P.).
Bremner, Donald Price (Z., P.).
Campbell, William Archibald (Z., C.).
Carmichael, Donald Livingston (C.).
Chislett, Charles Game Angus (B., C.).
Christie, Henry Howard (Z., C.).
Clark, John Sawers (Z., C.).
Cowan, Andrew Donaldson (B., P.).
Craig, Thomas Lawson (Z., C.).
Crawford, Arthur Muir (Z., C.).
Donald, Robert (Z.).
Driscoll, Richard John (B.).
Dunbar, James (B.).
Dunsmuir, Allan (Z.).
Dyke, Eric John (P.).
Eaton, Ernest Milne (Z., C.).
Fairlie, William Miller (Z., C.).
Forrest, Thomas Scott (P., C.).
Georgeson, James Wilfred (Z., P.).
Gilbert, William (Z., C.).
Gilfillan, William (C.).
Grant, Percy Frederick (Z., C.).
Gray, Arnold Harris (B., Z., P.).
Guthrie, Robert Neil (Z., C.).
Hammond, John (P.).
Hardie, William Towers (Z.).
Hill, Robert M‘Cowan (P.).
Hird, Annie Rennie (P., C.).
Hudson, Rose Isobel (P., C.).
Keys, John (Z., C.).
Kidd, James Dunlop (Z.)
Logan, George Hugh (B., P.).
Macaulay, Angus (B.).
M‘Call, Alexander (Z., C.).
M‘Cartney, John (P.).
M‘Cosh, Thomas (P., C.).
MacDonald, David (Z., C.).
M‘Farlane, James (Z., C.).
M‘Gilvray, John Robert (Z., C.).
M‘Kellar, William Anderson (Z.).
Mackenzie, Thomas Cooper (Z.).
Mackenzie, William Ferguson (Z., C.).
Macleod, William (B., P., C.).
M‘Millan, John (B., Z., P., C.).
M‘Neil, Alister Argyle Campbell (Z., C.)
M‘Phun, Agnes (Z.).
Macquarie, Charles James Colquhoun (Z., C.).

Maguire Andrew (Z., P.).
Marshall, Robert (B., Z.).
May, Robert (P.).
Miller, Allan Frederick (C.).
Miller, John (Z., C.).
Miller, Robert Stewart (Z.).
Miller, William (Z.).
Mitchell, Peter, M.A. (B., Z.).
Mitchell, Robert Wright (Z.).
Moore, William Struthers (B., P.).
Naismith, Archibald (B., Z.).
O'Hare, Patrick Joseph (B., P.).
Oswald, John (Z., P.).
Oversby, Edith (P., C.).
Paul, James Hogg (Z., C.).
Reid, Daniel M'Kinlay (Z., P.).
Reid, John (B., P.).
Reis, Vera Dagmar (P., C.).
Robertson, Frederick Gordon (Z., C.).
Robertson, James Henry Anderson (Z., P.).
Rodger, Murdoch Mann (B.).
Rutherfurd, William James (Z., C.).
Sharp, John (Z., C.).
Simpson, Robert Wilfrid (P.).
Slater, Robert Alexander (C.).
Smith, Thomas Baillie (Z., C.).
Stevenson, James (C.).
Stevenson, John (Z., C.).
Stewart, Archibald (Z., P.).
Stewart, John Torrance Weir (B., Z.).
Strain, Thomas (P.).
Tate, David Laurence Alexander (B., Z.).
Taylor, Margaret Baillie (C.).
Thomlinson, Christina Gibson (B., Z.).
Thomson, Charles Samson (Z., C.).
White, Hugh (Z.).
Williams, David John (Z.).
Wilson, George Haswell (Z., C.).
Wilson, Samuel, M.A. (Z., C.).
Wilson, William Alexander (P.).
Winning, Thomas, M.A. (B., Z.).

### SECOND PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (A., Anatomy; P., Physiology; M., Materia Medica and Therapeutics):

*October*, 1901.

Adam, Robert (M.).
Anderson, Adolph (P.).
Anderson, James Richard Sunner (P., M.).
Auld, Jeanie (M.).
Bennet, Thomas, M.A. (M.).
Bisset, Archibald Grainger (A., P.).
Blair, Alexander (A.).
Bradford, Robert George (P., M.).
Brown, John (P.).
Browning, Carl Hamilton (A., P., M.).
Caldwell, John Miller Hopkins (A.).
Cameron, Agnes Wallace (M.).
Cameron, Mary Charlotte (M.).
Campbell, Jane (A.).
Connal, Andrew (A., P., M.).
Cross, John (A.).
Davies, Hugh Collin (A., M.).
Dickie, David (M.).
Duncan, Jessie Galloway (M.).
Forsyth, James (A., P., M.).
Fraser, Kate, B.Sc. (M.).
Gairdner, Eric Dalrymple (M.).
Gilmour, Jane Reid Foulds (M.).
Gilmour, William Macmillan (P., M.)
Glover, James (A., P.).
Gordon, George (P.).
Hanson, John, M.A. (A., P., M.).
Hardy, Margaret (M.).
Harris, Saul Hyman (M.).
Harvey, William (M.).
Huey, John Monnette (A., P.).
Hutton, Malcolm, M.A. (A., P., M.).
Jamieson, Alexander (P., M.).
Kelly, John Muir (A.).
Kennedy, Alexander Dingwall (A., M.).
Kennedy, Robert Dallas (P.).
Leggat, Alexander (P.).
Leitch, Archibald (A.).
Logie, William Jamieson (P.).
Love, Thomas Walker (M.).
Macaulay, Donald (A. P.).
M'Cabe, John Bertram (P., M.).
Macdonald, John Finlay (A., P.).
Macintyre, David Duncan Fraser (P.).
Macleod, Norman Alexander (A., P., M.).
M'Neill, Mary Lauchline (M.).
M'Whan, Andrew Alexander (P.).
Martin, Anna Pollock (A.).
Matheson, Alexander, M.A., B.Sc. (M.).
Miller, Eliza Jane (M.).
Mitchell, Isabel Deane (M.).
Morton, John Baird (A., P., M.).

Muir, Gavin (A.).
Pairman, James Carmichael, M.A. (A., P., M.).
Richmond, Daniel Stevenson (P.,M.).
Richmond, George (A. P. M.).
Robertson, Peter Hamilton (M.).
Robertson, Robert Thin Craig (M.).
Ross, Campbell (A., P.).
Shaw, Lawrence Drew (P.).
Smart, Margaret Hossack (M.).
Smith, John Macgregor (P. M.).
Stevenson, John Black (M.).
Stevenson, Wm. David Henderson, M.A. (M.).
Stewart, Jessie Mary (M.).
Stewart, John (A., M.).
Stewart, Norman Burgess (A. P.).
Stewart, William (M.).
Sutherland, Peter Lindsay (M.).
Waddell, Janet Gardner (M.).
Walker, Joseph, M.A. (M.).
Watson, Alexander Macmillan (M.).
Watson, Robert (P.).
Watson, William Norman West (M.).
Williams, Griffith John (M.).
Wilson, Archibald Simpson (A.).
Wilson, Robert M'Nair (A., P.).
Wright, Eldred (A.).
Young, Hugh (M.).
Young, John (Glasgow), (M.).

*April*, 1902.

Adam, Scott Campbell (A., P.).
Amy, Archibald Craig (A., P., M.).
Anderson, Henry Graeme (A., P.).
Anderson, James Richard Sunner (A.).
Arthur, John William (M.).
Auld, Jeanie (A.).
Baird, Annie Agnes (A., M.).
Barrowman, Allan Robertson (A., P.).
Beattie, George (P., M.).
Bell, Robert Daniels, M.A. (A., P.).
Black, Annie M'Caig (A.).
Blackley, David (A., P., M.).
Bogle, George Thomson (M.).
Bradford, Robert George (A.).
Brechin, Forrest (A., P., M.).
Brodie, Thomas (P., M.).
Brown, Charles (P., M.).
Brown, John (A.).
Caldwell, George Yuille (A., P., M.).
Cameron, Agnes Wallace (A.).
Campbell, Roberta (A., P., M.).
Carrick, Peter, M.A. (A., P., M.).
Carslaw, Robert Buchanan, M.A. (A., P.).
Chapman, Ethel Lily (A., M.).
Cowie, James Alexander, B.A., B.Sc. (A., P., M.).
Crawford, John Craig (P., M.).
Dishington, Thomas Thornton Macklin (A., P., M.).
Donaldson, Hugh M'Millan (A.).
Downie, George Horn (A.).
Drew, Charles Milligan, M.A. (A., M.).
Fulton, Hugh Harvey (A., P.).
Gillatt, William Harold (A., P.).
Glover, James (M.).
Graham, David Livingstone (A., P.).
Graham, John (A., P.).
Grant, Donald John Gollan (A., P., M.).
Gray, George Munn (A., P.).
Greig, Louis Leisler (A., P.).
Hay, Alexander Robertson Forrest (A., P.).
Henderson, John Cochrane (A., P.).
Innes, Arthur (A., P.).
Jamieson, Alexander (A.).
Kennedy, Robert Dallas (A.).
Kerr, John (M.).
Kirkwood, George Notman (A., P.).
Leiper, Robert Thomson (A., P., M.).
Macaulay, Thomas Symington (A., P.).
M'Cormick, Donald Carmichael (A., P.).
M'Cutcheon, Joseph Glaister (P.).
Macdonald, John Finlay (M.).
M'Ewan, James Boston (A., P.).
M'Ewan, Tom Duncan (A., P.).
Macfadyen, Duncan (A., P.).
M'Farlane, John (A., P.).
Macfarlane, Robert (A., P.).
M'Guire, Robert Clark (A., P., M.).
M'Houl, James (A., P.).
M'Ilroy, Jane Hamilton, M.A., B.Sc. (A.).
M'Intyre, Milne (A., P., M.).
Mackinnon, Ronald (A., P., M.).
M'Lauchlan, Jane Stark (A., P., M.).
Maclean, Alice Wesley (A., M.).
M'Leish, David James, M.A. (A.,P.).
MacLeod, Roderick (M.).
MacNaughtan, Norman Smith (M.).
M'Pherson, Andrew Brown (P., M.).
Main, William (A., M.).
Meek, Andrew (A., P., M.).
Millar, Margaret Walker (M.).

Millar, Peter (A.).
Muir, Gavin Denholme (P.).
Muir, John (A., P.).
Munro, Jessie Emily (P.).
Munro, Macdonald (A., P.).
Napier, Alexander Harper (A.).
Nielson, George Clement (A., P.).
Orr, Thomas (P., M.).
Park, Charlotte Reid (A., M.).
Patrick, Howard Henderson (A., P.).
Paxton, Arthur Geoghegan (M.).
Pickup, John Clegg (A., P.).
Pollock, Alexander M'Millan (M.).
Pollock, Andrew Maclean (A., P.).
Porter, James (A., P.).
Pryce, Ethel Jane Mildred (A., M.).
Rae, William Murdoch (A., M.).
Reid, Donald Ronald (A., P., M.).
Richmond, Daniel Stevenson (A.).
Richmond, James Watson (A.).
Robertson, Berkeley Hope, M.A. (A., P.).
Robertson, Robert Thin Craig (P.).
Ross, Campbell (M.).
Samson, John (P.).
Shaw, Jane Reid (A., P.).
Shaw, Lawrence Drew (A.).
Sinclair, Malcolm Alexander (P., M.).
Smellie, Lily (A., P.).
Smith, George Goldie (A., P.).
Somerville, James Alexander (P., M.).
Stewart, John (P.).
Stewart, Norman Burgess (M.).
Stewart, William Craig (A., P., M.).
Talbert, Elizabeth Taylor (M.).
Taylor, Murray Ross (A., P., M.).
Templeton, William (A., P.).
Thomson, James White (A., P.).
Watson, Robert (A.).
West, Archibald Crombie (A., P.).
Wildish, George Henry (A.).
Wilson, George (P., M.).
Wilson, Robert M'Nair (M.).
Wyper, James, (P., M.).
Yates, Annie May (P.).
Young, Watson (A.).

### THIRD PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (P., Pathology; M., Medical Jurisprudence and Public Health):

*October*, 1901.

Armitage, William (P.).
Arthur, James Robert (P., M.).
Baird, Helen Stephen, B.A. (M.).
Bostock, Gertrude Dorman, B.Sc. (P., M.).
Bryson, Margaret Edith (P., M.).
Bryson, Robert (P.).
Campbell, Angus (P., M.).
Campbell, Robert Harold (P., M.).
Carruthers, Alexander Adam (M.).
Cartwright, Robert Peploe (M.).
Christie, John Cairns, M.A. (P., M.).
Cowan, Samuel Campbell (P., M.).
Craig, James (P., M.).
Dick, James, M.A. (P., M.).
Dick, Mitchell Innes (M.).
Douglas, Donald, M.A. (M.).
Dow, William (M.).
George, William White (P., M.).
Hagerty, John Andrew (M.).
Kennedy, John (P.).
Lochhead, Ethel Macleod (P., M.).
M'Dougall, Daniel Douglas, M.A. (M.)
MacFarlane, Alexander Armstrong (P., M.).
Mackellar, John Matheson (M.).
M'Kenzie, Ivy, M.A., B.Sc. (P., M.).
M'Vail, James Roy (P., M.).
Manson, Robert Harry (P.).
Menzies, Robert (M.).
Mitchell, Alexander John (P., M.).
Reid, John Mark (M.).
Rogers, Norman Cumming (M.).
Russell, James (P.).
Scott, Frank Donald (M.).
Stewart, John Barbour (P., M.).
Thomas, John Restell (M.).
Wallace, Edith Christine (P., M.).
Weston, John Forrest (M.).
White, Joseph, M.A., B.Sc. (P., M.).
Wilson, John (P.).

*April*, 1902.

Adam, Robert (P., M.).
Anderson, William Kirkpatrick (P., M.).
Ballantyne, Thomas (M.).
Bell, Andrew Farm (M.).
Bennett, Thomas, M.A. (M.).
Bisset, Archibald Grainger (P., M.).
Blair, Alexander (P., M.).
Bringan, James Campbell (P., M.).
Bruce, Robert (M.).

Cameron, Mary Charlotte (P., M.).
Campbell, Jane (P., M.).
Carmichael, Daniel Lyell (M.).
Clark, Alexander Erskine (M.).
Connal, Andrew (P., M.).
Davies, Hugh Collin (P., M.).
Dick, Mitchell Innes (P.).
Dickie, David (P., M.).
Duncan, Jessie Galloway (M.).
Dykes, David Garfield (P., M.).
Eadie, James (P., M.).
Finlator, Cunison Charles (P., M.).
Fraser, Kate, B.Sc. (P., M.).
Gairdner, Eric Dalrymple (P., M.).
Gilmour, John Ritchie (P.).
Hanson, John, M.A. (P., M.).
Harvey, William (P.).
Head, Leslie Charles Broughton (P., M.).
Hutchison, Neil M'Coll (P., M.).
Hutton, Malcolm, M.A., B.Sc. (P.M.).
Kelly, John Muir (P., M.).
Kennedy, Alexander Dingwall (M.).
Laurie, Robert (P., M.).
Leitch, Archibald (P., M.).
Love, Thomas Walker (P., M.).
Macaulay, Donald (P.).
M'Culloch, James Duff (P., M.).
Macintyre, David Duncan Fraser (P., M.).
Mackellar, John Matheson (P.).
Macleod, Norman Alexander (P.).
M'Neill, Mary Lauchline (M.).
Macvea, James Anthony (P., M.).
Martin, Anna Pollock (P., M.).
Martyn, Harry Somerville, M.A. (M.).
Matheson, Alexander, M.A., B.Sc. (P., M.).
Miller, Eliza Jane (P., M.).
Mitchell, Isabel Deane (P., M.).
Mort, Spencer (P., M.).
Muir, Gavin (P., M.).
Penman, David (M.).
Rankin, William, M.A. (P., M.).
Riddell, Daniel Falconer, M.A. (P., M.)
Robertson, Peter Hamilton (P.).
Scott, Frank Donald (P.).
Shand, William Garrow (P., M.).
Smart, Margaret Hossack (P., M.).
Stevenson, John Black (P.).
Stevenson, William David Henderson, M.A. (P.).
Stewart, Jessie Marie (P., M.).
Stewart, William (P., M.).
Sutherland, Arthur William, M.A. (P., M.).
Sutherland, John Wilson (P., M.).
Sutherland, Peter Lindsay (P., M.).
Thomas, John Restell (P.).
Turnbull, John (P.).
Walker, Joseph, M.A. (P.).
Warwick, Hugh Fleming (M.).
Watson, William Norman West (P., M.).
Wells, Robert Tait, M.A. (P.).
Weston, John Forrest (P,).
Williams, Griffith John (P., M.).
Wilson, James (P., M.).
Wright, Eldred (P., M.).

### FOURTH PROFESSIONAL EXAMINATION.

The following passed the whole examination (Surgery and Clinical Surgery; Practice of Medicine and Clinical Medicine; Midwifery):

*July*, 1901.

Adams, Martha.
Anderson, John.
Anderson, Thomas.
Archibald, William.
Barclay, James Oastler.
Barr, John Stoddart.
Brown, William Herbert.
Brown, William Macalister.
Buchan, George Frederick.
Burnett, Ernest Cecil.
Cairns, Patrick Thomas.
Cameron, Samuel James.
Campbell, Robert David.
Cook, James Bertie Wylie.
Cramb, Ernest Hamilton.
Currie, Andrew.
Davidson, David Beattie.
Davidson, James, M.A.
Davie, Gregor Hugh Grant.
Doig, Alexander.
Dunlop, Reginald Nairn.
Eadie, George Balfour.
Elder, William.
Farrar, William Watt.
Forrest, John.
Garden, John Andrew.
Granger, Andrew Parlane.
Gregor, John.
Hardie, Mabel.
Harlan, George Pillans.
Henry, Francis Joseph.
Hunter, Douglas William.

Hunter, Matthew.
Isbister, William Johnstone.
Jack, Thomas Hamilton.
Kilpatrick, Daniel Ross.
Kyle, David, M.A.
Lambie, John.
Lochrane, Frank Joseph.
M'Laren, Thomas.
M'Lean, Hugh Archibald.
M'Millan, George Williamson.
M'Pherson, James, M.A.
Magoveny, Edward.
Mains, Jacob.
Millar, James Grant.
Mills, Robert Joseph.
Mills, William Archibald.
Milne, William Alexander.
Moore, Samuel Johnston.
Moorhouse, Alice.
Muir, Alan Howie.
Paterson Robert.
Paton, John.
Patrick, James King.
Pirret, Mary Janet.
Ramsey, Robert.
Reid, Peter Mackenzie.
Robertson, William (Kilmarnock).
Rodger, Thomas Ritchie.
Ross, Charles James, B.A.
Shannon, David.
Sloan, Agnes Bankier.
Sloan, Elizabeth Macfarlane.
Steel, Donald.
Strathearn, John.
Thompson, Alexander Dey.
Todd, James Nathanael.
Tomkinson, Joseph Goodwin.
Turner, John Wright.
Valentine, Robert Warden.
Wainwright, Albert Ernest.
Walker, James.
Wallace, George Smith.
Waugh, Peter Millar.
Wilson, William Webster Watt.

The following passed in the subjects indicated (S., Surgery and Clinical Surgery ; P., Practice of Medicine and Clinical Medicine ; M., Midwifery):

*July*, 1901.

Auld, Robert Wellwood (S., P.).
Campbell, John James Young (P.,M.).
Chapman, Edward Seymour (P., M.).
Clark, George Herbert (P., M.).
Drummond, James (S., M.).
Ferguson, George (M.).
Fletcher, Duncan Johnston (S., M.).
Forsyth, Thomas (P., M.).
Gemmill, William (S., M.).
Gourlay, James Dickson (P., M.).
Gow, Archibald (P., M.).
Higgins, Janet Bisland (P., M.).
Linn, Alexander (P., M.).
M'Dougall, James William (P.).
M'Feat, Walter James (S., M.).
M'Glashan, William Ferguson (S.,M.)
Mitchell, Allan Dixon (S., M.).
Myhre, Karen Margrethe (M.).
Orr, Robert (S., P.).
Potter, Mary Emma (P., M.).
Reid, Andrew (S., P.).
Ritchings, Mary Ann Thompson (P., M.).
Ross, Andrew Taylor (P., M.).
Ross, Elizabeth Ness MacBean (P.,M.)
Stewart, John, M.A. (P., M.).
Swan, Robert Rennie (P., M.).
White, Robert George, M.A., B.Sc. (S., M.).
Wilson, James (S., M.).
Wylie, William Robertson (S., M.).
Young, Henrietta Fraser (P., M.).

*October*, 1901.

Auld, Robert Wellwood (M.).
Campbell, John James Young (S.).
Chapman, Edward Seymour (S.).
Clark, George Herbert (S.).
Fletcher, Duncan Johnston (P.).
Forsyth, Thomas (S.).
Gemmill, William (P.).
Gourlay, James Dickson (S.).
Gow, Archibald (S.).
Higgins, Janet Bisland (S.).
Linn, Alexander (S.).
M'Feat, Walter James (P.).
M'Glashan, William Ferguson (P.).
Myhre, Karen Margrethe (S.).
Orr, Robert (M.).
Potter, Mary Emma (S.).
Reid, Andrew (M.).
Ross, Elizabeth Ness MacBean (S.).
Stewart, John, M.A. (S.).
Swan, Robert Rennie (S.).
White, Robert George, M.A., B.Sc. (P.).
Wilson, James (P.).
Wylie, William Robertson (P.).
Young, Henrietta Fraser (S.).

### FIRST, SECOND, THIRD, AND FOURTH PROFESSIONAL EXAMINATIONS.

The following passed with distinction in the subjects indicated:

#### FIRST EXAMINATION.

*October*, 1901.

In Botany, Zoology, and Physics—George Allison Allan. In Botany and Physics—John Logan Stewart, M.A.; Joseph Roderick Sutherland. In Zoology and Chemistry—William Rolland. In Botany—Alexander Cappie Russell. In Zoology—John Shaw Dunn, Arnold Ernest Jones, John Duncan M'Callum, M.A.; James Kennedy Welsh. In Physics—James Henderson Baird, B.A.; Hamilton William Dyke, Alexander Hunter, William Love Kirkwood, Thomas Thomson Rankin, James Mill Renton, Arthur Robertson. In Chemistry—James Charles Donaldson Simpson.

*April*, 1902.

In Botany and Zoology—Peter Mitchell, M.A. In Botany—Charles Game Angus Chislett, Andrew Donaldson Cowan. In Zoology—Thomas Lawson Craig, Ernest Milne Eaton, Robert Neil Guthrie, William Forguson Mackenzie, Charles James Colquhoun Macquarie, John Miller, Robert Wright Mitchell, John Stevenson. In Physics—Jeannie Montgomery Andrew, Robert M'Cowan Hill, Rose Isobel Hudson, William Struthers Moore, Vera Dagmar Reis. In Chemistry—William Gilbert, William James Rutherfurd.

#### SECOND EXAMINATION.

*October*, 1901.

In Anatomy and Physiology—James Carmichael Pairman, M.A. In Physiology and in Materia Medica and Therapeutics—Carl Hamilton Browning. In Anatomy—John Baird Morton. In Physiology—Robert M'Nair Wilson. In Materia Medica and Therapeutics—Robert Adam, Thomas Walker Love, John Macgregor Smith, John Black Stevenson, Peter Lindsay Sutherland, William Norman West Watson.

*April*, 1902.

In Anatomy and Physiology—Robert Buchanan Carslaw, M.A.; Hugh Harvey Fulton, John Graham, George Munn Gray, James White Thomson. In Anatomy—Arthur Innes, David James M'Leish, M.A. In Physiology—Robert Thomson Leiper, Berkeley Hope Robertson, M.A.; George Goldie Smith, William Templeton. In Materia Medica and Therapeutics—James Glover, Robert M'Nair Wilson.

#### THIRD EXAMINATION.

*October*, 1901.

In Pathology—Gertrude Dorman Bostock, B.Sc.

*April*, 1902.

In Pathology and in Medical Jurisprudence and Public Health—Peter Lindsay Sutherland. In Pathology—Malcolm Hutton, M.A., B.Sc.; Alexander Matheson, M.A., B.Sc.; William David Henderson Stevenson, M.A.; John Wilson Sutherland. In Medical Jurisprudence and Public Health—Spencer Mort.

#### FOURTH EXAMINATION.

*July*, 1901.

In (*a*) Surgery and Clinical Surgery, (*b*) Practice of Medicine and Clinical Medicine, (*c*) Midwifery—Alexander Dey Thompson. In (*a*) Surgery and

Clinical Surgery, (*b*) Practice of Medicine and Clinical Medicine—David Kyle, M.A.; Edward Magoveny. In (*a*) Practice of Medicine and Clinical Medicine, (*b*) Midwifery—Samuel James Cameron, James Davidson, M.A.; James Walker. In Surgery and Clinical Surgery—Donald Steel. In Practice of Medicine and Clinical Medicine—John Anderson, William Archibald, Robert Wellwood Auld, James Oastler Barclay, John Stoddart Barr, William Herbert Brown, William Macalister Brown, George Frederick Buchan, Edward Seymour Chapman, David Beattie Davidson, Janet Bisland Higgins, Douglas William Hunter, James M'Pherson, M.A.; Jacob Mains, William Alexander Milne, Alice Moorhouse, Alan Howie Muir, Peter Mackenzie Reid, William Robertson (Kilmarnock), Agnes Bankier Sloan, Joseph Goodwin Tomkinson, Albert Ernest Wainwright. In Midwifery—Reginald Nairn Dunlop, Robert Ramsey, Robert Warden Valentine.

## IV.—FOR DEGREE OF B.Sc.

### REGULATIONS OF 1892.

### A. IN PURE SCIENCE.

### FIRST SCIENCE EXAMINATION.

*October*, 1901.

**Craik, David** (Chemistry).
**Duncan, William Hunter** (Chemistry).
**Fukuzawa, Sampachi** (Mathematics, Natural Philosophy).
**Hutchison, Harry Stewart** (Mathematics).
**Mackenzie, Alexander Ramsay** (Chemistry).
**Miller, John** (Beith), (Mathematics).
**Miller, William** (Chemistry).
**Ross, Jane Helen** (Natural Philosophy, Chemistry).
**Thomson, David** (Chemistry).

*April*, 1902.

**Baird, Andrew Cumming** (Mathematics).
**Borland, William Dunlop** (Mathematics).
**Buchanan, Andrew** (Mathematics).
**Campbell, John** (Chemistry).
**Cantor, Aaron** (Mathematics).
**Deans, William Smellie** (Mathematics).
**Donald, Gavin M'Culloch** (Mathematics).
**Gemmell, John Justice, M.A.** (Chemistry).
**Irvine, Robert, M.A.** (Chemistry).
**Mackenzie, Thomas Dingwall** (Mathematics, Natural Philosophy).
**M'Pherson, William Pettigrew** (Mathematics, Chemistry).
**M'Quistan, Dougald Black, M.A.** (Chemistry).
**MacRobert, Thomas Murray** (Mathematics).
**Marshall, Barbara Carswell** (Mathematics).
**Middleton, John Clark** (Natural Philosophy).
**Miller, John** (Beith), (Natural Philosophy, Chemistry).
**Miller, William** (Natural Philosophy).
**Nolan, Kathleen Mary** (Chemistry).
**Robertson, Hugo Given** (Natural Philosophy, Chemistry).
**Robertson, Richard Dunn** (Chemistry).
**Thompson, William Lindsay** (Chemistry).

### FINAL SCIENCE EXAMINATION.

*October*, 1901.

Donald, Robert (Chemistry, Geology, Zoology).
Gow, Louis Niel, M.A. (Chemistry).
Hutton, Malcolm, M.A. (Anatomy, Physiology).
[1] Hyslop, William, M.A. (Mathematics, Natural Philosophy).
M'Ilroy, Jane Hamilton, M.A. (Zoology, Botany).
Muir, John (Anatomy).
Robertson, Berkeley Hope, M.A. (Geology).
Smith, George Goldie (Zoology).

*April*, 1902.

Graham, John (Anatomy, Physiology).
Lamont, Alexander Buchanan, M.A. (Geology).
M'Leish, David James, M.A. (Anatomy, Physiology).
Mort, Frederick, M.A. (Mathematics, Natural Philosophy, Geology).
Rankin, Jessie Deans, M.A. (Zoology).
Robertson, Berkeley Hope, M.A. (Physiology).
Smith, George Goldie (Anatomy, Physiology).
Stewart, Alfred Walter (Mathematics, Geology).
Stratton, William, M.A. (Geology).

## B. IN ENGINEERING.

### FIRST SCIENCE EXAMINATION.

*October*, 1901.

Begg, James M'Gee (Higher Mathematics).
Beilby, Hubert Noel (Ordinary Mathematics, Chemistry).
Blackley, Samuel (Ordinary Mathematics).
Blair, James Davidson (Chemistry, Chemical Laboratory).
Bondegaard, Ejnar (Ordinary Natural Philosophy).
Bostock, William Henry Dorman (Ordinary Mathematics, Chemistry, Chemical Laboratory).
Crawford, William Jackson (Ordinary Mathematics).
Donald, William Francis Maxwell (Ordinary Mathematics).
Fairlie, John Clowes (Higher Natural Philosophy).
Hartley, Richard Frederick (Ordinary Natural Philosophy).
Hislop, Frederick Laurence (Chemistry, Chemical Laboratory).
Houston, William Campbell (Physical Laboratory).
Howat, William Carrick (Chemistry, Chemical Laboratory).
Howden, James (Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
Lobban, Charles Henry (Chemical Laboratory).
Macbeth, William Gilchrist (Chemistry, Chemical Laboratory).
MacConnell, John Alexander (Ordinary Mathematics, Ordinary Natural Philosophy).
M'Crindle, John Alexander (Ordinary Natural Philosophy. Chemistry, Chemical Laboratory).
MacDougall, John Ernest (Chemistry, Chemical Laboratory).
Mackay, Hugh Alexander (Higher Natural Philosophy).
Macmillan, Niel Boyd (Chemistry).
Martin, John (Physical Laboratory, Chemistry).

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[1] With Distinction in Mathematics and Natural Philosophy.

Primrose, Clive Macfarlane (Higher Mathematics, Chemistry, Chemical Laboratory).
Robertson, William Frank (Higher Mathematics, Chemistry, Chemical Laboratory).
Satow, Kouji (Higher Mathematics, Chemistry, Chemical Laboratory).
Smyth, Fryer Thomas Acheson (Ordinary Mathematics, Chemistry).
Smyth, Pierson Florence John (Chemical Laboratory).
Steele, James Edward (Ordinary Natural Philosophy, Physical Laboratory).
[1] Stirling, James Neilson (Higher Mathematics, Higher Natural Philosophy).
Taylor, Bertram Fenwick (Chemistry).
Ure, Robert (Physical Laboratory).
Weller, Henry Owen (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory, Chemistry).
Whitehead, John (Ordinary Mathematics, Chemistry, Chemical Laboratory).
Williamson, Alexander (Higher Natural Philosophy).
Young, John Graham (Higher Mathematics).

### *April*, 1902.

[2]Adams, Bernard Inman Franklin (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Barclay, Noel M'Eachran (Ordinary Mathematics).
Bayne, John Archibald Campbell (Higher Natural Philosophy, Chemistry).
Begg, James M'Gee (Physical Laboratory).
Birkett, Hugh de Paynesley (Higher Mathematics, Ordinary Natural Philosophy).
Blair, Robert (Higher Natural Philosophy).
[2]Bondegaard, Ejnar (Higher Mathematics, Physical Laboratory, Chemistry).
Bostock, William Henry Dorman (Higher Mathematics, Ordinary Natural Philosophy).
Coats, James Richardson (Ordinary Mathematics, Ordinary Natural Philosophy).
[3] Cousens, Henry James Morrison (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Cuthbertson, Robert (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Crawford, William Jackson (Higher Mathematics, Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
Dempster, Thomas Grant (Higher Natural Philosophy).
Dickie, James Black (Higher Mathematics).
[4] Gray, James (Higher Mathematics, Higher Natural Philosophy, Physical Laboratory, Chemistry).
Gray, William M'Gill (Higher Natural Philosophy).
[2] Haigh, Bernard Parker (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Hartley, Richard Frederick (Ordinary Mathematics, Chemistry, Chemical Laboratory).
Hartley, Sidney (Ordinary Mathematics, Ordinary Natural Philosophy).
Harvey, William Barnett (Higher Natural Philosophy).
Hislop, Frederick Laurence (Higher Natural Philosophy).
Holmes, Robert Gerard Addison (Ordinary Mathematics).
Houston, William Campbell (Chemistry).

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[1] With Distinction in Higher Mathematics and Higher Natural Philosophy.
[2] With Special Distinction in Physical Laboratory.
[3] With Special Distinction in (*a*) Mathematics, (*b*) Physical Laboratory.
[4] With Special Distinction in (*a*) Natural Philosophy, (*b*) Physical Laboratory.

Howat, William Carrick (Ordinary Natural Philosophy).
Howden, James (Higher Mathematics).
Hunter, Thomas Macmillan, M.A. (Higher Natural Philosophy).
Hutchison, Alexander (Ordinary Mathematics, Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
Kajima, Tatsuzo (Higher Mathematics).
Kerr, Duncan John (Ordinary Mathematics, Ordinary Natural Philosophy).
Kerr, John (Ordinary Mathematics, Ordinary Natural Philosophy).
Kirkwood, John (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Lawrance, Alexander (Chemistry, Chemical Laboratory).
Lobban, Charles Henry (Higher Mathematics, Higher Natural Philosophy, Chemistry).
Macbeth, William Gilchrist (Ordinary Mathematics).
MacConnell, John Alexander (Higher Mathematics, Physical Laboratory).
M'Crindle, John Alexander (Ordinary Mathematics).
M'Dougall, John Ernest (Ordinary Mathematics).
Maclean, Neil John (Higher Mathematics).
Martin, John (Higher Mathematics).
Maxwell, John Maxwell Scott (Ordinary Natural Philosophy, Physical Laboratory).
Muir, John Findlay (Higher Natural Philosophy).
Muirhead, James (Higher Natural Philosophy).
[1] Nimmo, James Valence (Higher Natural Philosophy).
Parr, Fredrik (Physical Laboratory).
Primrose, Clive Macfarlane (Higher Natural Philosophy).
Roberts, Cyril Humphrey (Chemical Laboratory).
Robertson, William Frank (Higher Natural Philosophy).
Smyth, Fryer Thomas Acheson (Higher Mathematics).
Spartali, Michael (Chemical Laboratory).
Steele, James Edward (Higher Natural Philosophy).
[2] Ure, Robert (Higher Mathematics, Ordinary Natural Philosophy).
Weller, Henry Owen (Higher Mathematics).
Whitehead, John (Ordinary Natural Philosophy).
Wilson, Andrew Victor (Ordinary Mathematics, Physical Laboratory).
Wilson, Arthur Hamilton (Higher Natural Philosophy).
[2] Workman, Robert Ernest (Higher Mathematics, Higher Natural Philosophy).
Young, John Graham (Higher Natural Philosophy).
Younger, John (Chemistry).

### FINAL SCIENCE EXAMINATION.

*October*, 1901.

Bryson, William (Engineering and Drawing, Engineering Laboratory—Electrical).
Gunson, Ernest Whinery (Geology and Mineralogy).
Harvey, William Barnett (Geology and Mineralogy).
Neilson, Robert Thomson (Geology and Mineralogy).
Whitelaw, Andrew Hepburn (Engineering Laboratory—Electrical).
[3] Wilson, Alfred John (Engineering and Drawing).

*April*, 1902.

Blackley, Samuel (Engineering Laboratory—Electrical).
Blair, Robert (Engineering Laboratory—Electrical).

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[1] With Special Distinction in Natural Philosophy.
[2] With Special Distinction in Mathematics.
[3] With Distinction in Engineering and Drawing.

Burn, William George (Electricity—Pure and Applied).
Clark, James Miller, M.A., B.Sc. (Engineering and Drawing).
Dempster, Thomas Grant (Electricity—Pure and Applied).
Donald, William Francis Maxwell (Geology and Mineralogy).
Fairley, John (Engineering and Drawing, Engineering Laboratory—Electrical).
Fairlie, John Clowes (Engineering and Drawing, Engineering Laboratory—Electrical).
Gray, William M'Gill (Engineering).
Hislop, Frederick Laurence (Engineering and Drawing).
Hunter, Thomas Macmillan, M.A. (Engineering and Drawing).
[1]MacLachlan, Duncan Robert (Engineering and Drawing, Engineering Laboratory—Electrical).
Macmillan, Niel Boyd (Engineering and Drawing, Engineering Laboratory—Electrical).
[2]Mitchell, John Stewart (Engineering and Drawing).
[2]Morley, Thomas Bonner (Engineering and Drawing, Naval Architecture).
[1]Muirhead, James (Engineering and Drawing, Engineering Laboratory—Electrical).
Nimmo, James Valence (Engineering and Drawing).
Robertson, William Frank (Naval Architecture and Drawing).
Steele, James Edward (Engineering).
Stewart, Frederick Robert (Electricity—Pure and Applied).
Tainsh, John Alexander Gowans (Naval Architecture and Drawing).
Williamson, Alexander (Engineering and Drawing, Naval Architecture).
Workman, Robert Ernest (Engineering Laboratory—Electrical).
Young, John Graham (Engineering and Drawing, Engineering Laboratory—Electrical).

## C. In Agriculture.

### FIRST SCIENCE EXAMINATION.

*October*, 1901.—Porter, John (Mathematics, Natural Philosophy).

*April*, 1902.

Cupples, Joseph (Natural Philosophy).
Porter, John (Chemistry).
Struthers, John, M.A. (Chemistry).
Watt, Robert Dickie (Natural Philosophy, Chemistry).

### FINAL SCIENCE EXAMINATION.

*October*, 1901.

Graham, Alexander (Agricultural Chemistry, Experimental Physics).
Lamont. Alexander Buchanan, M.A. (Engineering Field Work).
Porter, Edward (Geology, Agricultural Entomology, Engineering Field Work).

*April*, 1902.

Bradshaw, James (Agriculture and Rural Economy, Agricultural Chemistry, Veterinary Hygiene, Engineering).
Graham, Alexander (Agriculture and Rural Economy, Veterinary Hygiene).
Lamont, Alexander Buchanan, M.A. (Geology).
Porter, Edward (Agriculture and Rural Economy, Agricultural Chemistry, Veterinary Hygiene, Agricultural Botany, Economic Science, Engineering).

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[1] With Special Distinction in Engineering Laboratory—Electrical.
[2] With Special Distinction in Engineering and Drawing.

## V.—FOR CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

*October*, 1901.

Bianchi, Manuel Ireneo (Naval Architecture, Ship and Engineering Drawing, Engineering and Laboratory).
Blackley, Samuel (Mathematics).
Bryson, William (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Gunson, Ernest Whinery (Engineering and Laboratory, Drawing, Geology).
Hartley, Richard Frederick (Natural Philosophy).
Neilson, Robert Thomson (Geology).
Whitelaw, Andrew Hepburn (Engineering Laboratory—Electrical).
Wilson, Alfred John (Engineering and Laboratory, Drawing).

*April*, 1902.

Blackley, Samuel (Mathematics, Engineering Laboratory—Electrical).
Clark, James Miller, M.A., B.Sc. (Engineering and Laboratory—Drawing).
Couper, Alexander Russell (Natural Philosophy).
Cousens, Henry James Morrison (Mathematics, Natural Philosophy).
Donald, William Francis Maxwell (Mathematics, Geology).
Fairley, John (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Hartley, Richard Frederick (Chemistry).
Hislop, Frederick Laurence (Engineering and Laboratory, Drawing).
Howat, William Carrick (Mathematics, Natural Philosophy).
Hunter, Thomas Macmillan, M.A. (Engineering and Laboratory, Drawing).
Macmillan, Niel Boyd (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Muir, John Findlay (Drawing).
Muirhead, James (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Symons, John Wade (Drawing).
Ure, Robert (Mathematics, Natural Philosophy).
Williamson, Alexander (Engineering and Laboratory, Drawing).
Workman, Robert Ernest (Mathematics, Engineering Laboratory—Electrical).
Yeaman, William George (Chemistry).
Young, John Graham (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).

## VI. FOR DEGREE OF M.A.

### OLD REGULATIONS.

IN MENTAL PHILOSOPHY.

*April*, 1902.—William Sinclair Stevenson.

IN MATHEMATICS AND NATURAL PHILOSOPHY.

*April*, 1902.—William Napier Bell.

### NEW REGULATIONS.

### *A.—LANGUAGE AND LITERATURE.*

LATIN.

*October*, 1901.

Alcorn, William Andrew.
Arneil, Loudon.
Bell, Walter William Aitken.
Black, William Duncan Thomson.
Burnside, Jessie.
Clark, William.

Crawford, David.
Duncan, Andrew Rae.
Dunn, Herbert.
Findlay, William Erskine.
Foulis, James Bell.
Gemmell, John Justice (II. Hon.).
Gilchrist, James Albert.
Graham, Thomas (II. Hon.).
Henderson, Robert.
Houston, William.
Howat, William.
Jarvie, William Robert.
Lapsley, John.
Lewis, John.
Lightbody, Isaac Whiteford.
Love, Arthur Patrick.
M'Arthur, Jane.
MacDonald, James George (II. Hon.).
Macdougall, Netta.
Mackenzie, Janet Millen.
Merry, William Robert Wilson.
Millen, James White.
Miller, Steuart Napier (I. Hon.).
Mitchell, George.
Morrison, Lina.
Moyes, James (II. Hon.).
Muir, Morton Mungo.
Robertson, James.
Robertson, Richard Dunn.
Rogerson, Andrew William.
Russell, Albert.
Scott, Robert (Paisley).
Scott, William.
Stephen, John Brown.
Stuart, Mary Isabelle Moody.
Thorne, Thomas Brown.

*April*, 1902.

Aird, William
Alexander, Robert.
Anderson, John (Langside).
Arthur, David.
Ballantyne, James.
Barclay, James.
Baxter, Thomas.
Bayne, Alexander Robert.
Beaumont, Thomas.
Bennett, Octavia Jane Ronald.
Biggar, Matthew.
Blair, James Wilson.
Brayne, Albert Frederic Lucas.
Brown, Andrew.
Brown, James Robert.
Brown, John Rankine.
Browning, Robert.
Calderwood, Andrew Fulton.
Cameron, John.
Cameron, Thomas Bell.
Campbell, Catherine (Taynuilt).
Cant, Thomas.
Carswell, Margaret Hunter.
Conley, Neil.
Cromar, Arthur Henry.
Cromar, Frederick Gordon.
Dempster, John Jarvie.
Dunlop, James.
Ewen, Christian.
Fletcher, George.
Fraser, George Muir.
Fulton, William Maxwell.
Grant, Robert Monteath.
Green, George.
Helme, Charles George Gordon.
Hewitt, Jeanie Allan Telfer.
Hogg, Gilbert Pitcairn.
Howard, William.
Hubbard, Walter.
Hunter, John Miller.
Jack, William.
Jackson, Robert.
Keddie, Janey Aitken.
Lamb, Jessie Fletcher.
Lambie, Henry.
Lambie, John.
Leitch, Renwick.
Lochhead, John Hamilton Barr.
M'Bride, William.
M'Clement, Hugh.
M'Culloch, Finlay.
MacCulloch, Walter Malcolm.
Macdonald, Chrissibelle.
Macdonald, Elsie Frame.
Macdougall, Grace.
M'Fadyen, James.
M'Gill, Martha.
Macgill, William Duncanson.
Macgregor, Arthur Esdaile.
Macintyre, Margaret.
Mackay, Alexander.
M'Kinnon, Ewen.
Macphail, Janet Isabel.
MacRobert, Thomas Murray.
Miller, Campbell Lamont.
Miller, John Macnair.
Milligan, Isabella Margaret.
Napier, Robert Hellier.
Reid, John.
Ritchie, Flora.
Robertson, Margaret Thomson.
Russell, James Gilchrist.

Scott, William (Stonehouse).
Shaw, Archibald.
Sheridan, Robert.
Sloan, Tennant.
Smith, Hugh.
Smith, Isabella Robson.
Stenhouse, David.
Stewart, William Salmond.
Sturgeon, John.
Thomson, William John Johnston.
Turnbull, Arthur.
Wellwood, Harold.
White, Charles Eadie Park.
White, William Dymock.
White, William Kay.
Whitecross, Williamina Chalmers.
Woodburn, John Murray.
Young, George Ernest Robertson.

### GREEK.

*October*, 1901.

Archibald, Robert.
Baillie, John.
Brown, Alexander.
Dunn, Herbert.
Gemmell, John Justice (II. Hon.).
Gourlay, James Nash.
Graham, Thomas (II. Hon.).
Henderson, William Williamson.
Hutton, Frederick Robert Hughes.
MacDonald, James George (II. Hon.).
M'Laren, Robert.
M'Millan, Andrew.
Merry, William Robert Wilson.
Miller, John (Beith).
Miller, Steuart Napier (I. Hon.).
Moyes, James (II. Hon.).
Philip, Annie Glenday.
Rusk, Robert Robertson.[1]
Scott, John Waugh.[1]
Thomson, John Archibald Glover.
Walker, George William.

*April*, 1902.

Adam, Henry Harper.
Ballantyne, James.
Barclay, James.
Beaumont, Thomas.
Brayne, Albert Frederic Lucas.
Brown, John Rankine.
Conley, Neil.
Dempster, John Jarvie.
Farish, Charles William.
Fraser, George Muir.
Fulton, William Maxwell.
Helme, Charles George Gordon.
Hunter, John Miller.
Jackson, Robert.
Jeffrey, George Johnstone.
Leitch, Renwick.
MacCulloch, Walter Malcolm.
Macgill, William Duncanson.
M'Laren, Duncan.
MacRobert, Thomas Murray.
More, James William.
Napier, Robert Hellier.
Nelson, Jannette Reid Bartholomew.
Nicholson, Clark.
Safeley, John.
Sheridan, Robert.
Sloan, Tennant.
Smith, Hugh.
Stephen, John Brown.
Stewart, William Salmond.
Thomson, Robert Cleghorn.
Turnbull, Arthur.
White, William Kay.
Wordie, William.
Young, George Ernest Robertson.

### ENGLISH.

*October*, 1901.

Anderson, Margaret M'Kenzie.
Bain, John.
Conn, Robert.
Dale, Robert Wilson.
Gillan, William.
Grant, Sinclair.
Lamb, Agnes Charlotte.
Lapsley, John.
MacDougall, William (II. Hon.).
M'Intyre, Wylie Robert.
M'Laughlin, John.
M'Millan, John Murray.
M'Neill, Margaret.
Macvea, Janet Annie.

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[1] Special Examination (translating into English) with view to Honours in Mental Philosophy.

Manson, William Hislop.
Millen, James White.
Neilson, John.
Purdie, John.
Reid, William Kirkpatrick.
Stirling, John.
Towers, Thomas Dundas.
Vincent, Clarence James.
Waddell, Bryce Martin.
Young, Charles Alexander (I. Hon.).

*April*, 1902.

Adam, Colin Black.
Aird, Janet Roberton.
Allan, William.
Anderson, John Dunlop.
Archibald, Robert.
Armour, Helen Maxwell (II. Hon.).
Arneil, Loudon.
Auld, William James.
Baird, Annie Agnes.
Barbour, Margaret.
Beaumont, George.
Bell, William.
Beveridge, James.
Black, Norman Annandale.
Blackhall, Mary.
Bowman, Archibald Allan.
Boyce, Claud Alexander.
Burn, Jeannie.
Chambers, Frances Sara.
Chisholm, Alexander.
Clark, Duncan Walker.
Clark, William.
Clark, Mabel Beatrice.
Climie, Jenny Cumming.
Cochran, Andrew.
Cochrane, James.
Cockburn, James Hutchison.
Colquhoun, John.
Cook, John Blair.
Cullen, Thomas Thompson.
Dalziel, Samuel James.
Davidson, Francis.
Dawson, Archibald.
Devine, James M'Donald.
Donald, Andrew.
Downie, Jemima Wright.
Dudgeon, Peter.
Dunlop, Hugh Morton.
Edward, Thomas David.
Farish, Charles William.
Farquhar, James Rainy.
Ferguson, William.
Ferrier, Douglas.
Findlay, William Erskine.
Forrest, Louise Margaret.
Gordon, George Stuart.
Gourlay, James Nash.
Graham, George Robert.
Grant, William.
Greig, John Isdale.
Gullan, James Douglas Campbell.
Guthrie, Hugh Boyd.
Hair, John (Muirkirk).
Hair, John (Thornhill).
Hamilton, Joanna Finlay.
Hay, John Primrose.
Henderson, Eleanor Stevenson.
Henderson, William Williamson.
Hill, Ella Smith.
Horn, John Fraser.
Hunter, Jenny Gibson.
Hutton, Frederick Robert Hughes.
Isbister, Lucy Hay.
Johnston, Robert Buchanan.
Kellow, Henry Arthur.
Kerr, Elizabeth Craig.
Kettle, Margaret Crow.
Kirkhope, Hugh.
Lakin, Alexander.
Lang, William.
Latta, Mary Muir.
Lauder, Isa Esther.
Lennox, William.
Lindsay, William Macskimming.
Loudon, William.
Love, Arthur Patrick.
Macalister, Robert Henry.
M'Allister, George William.
M'Bryde, John.
M'Coll, Hugh Clarke.
M'Creath, James Fergusson.
M'Culloch, Mary Malcolm.
Macdonald, Donald.
M'Donald, Roderick Alexander.
M'Elwain, James.
Macfarlane, John.
M'Farlane, Margaret Conchie Raphael.
MacInnes, John.
MacInnes, Neil.
M'Kechnie, Duncan.
Mackenzie, Alexander Ramsay.
M'Kinney, Alexander Doctor.
Mackinnon, Alexander (II. Hon.).
M'Laren, Martin Campbell.
M'Lelland, William.
Macleod, John Stewart.
M'Millan, Malcolm.
M'Neil, John.

M‘Phee, John.
Macphie, Donald.
M‘Shee, Andrew.
Macvicar, Angus John.
Mair, Margaret.
Malcolm, Alice Annie Lumsden.
Malcolm, William Risk.
Marshall, Peter.
Middleton, John Clark.
Miller, John (Motherwell).
Morrison, John Coutts.
Mortimer, William.
Muggoch, James Wilson.
Muir, Euphemia Helen Hunter.
Muir, Morton Mungo.
Murray, Alexander.
Murray, Richard.
Nicholson, Clark.
O'Beirne, Neil Hay.
Paterson, Donald.
Paterson, John Neil MacLeod.
Pennycook, George.
Picken, Agnes.
Rae, Peter.
Rae, Richard.
Ritchie, Allan Marshall.
Robertson, Margaret Thomson.
Saunders, Frank William.
Scorgie, Agnes Dalziel.
Scoular, Andrew Findlay.
Scott, John M‘Naught.
Scott, John Waugh.
Scott, William (Glasgow).
Skilling, Samuel Ritchie.
Smith, Isabella Robson.
Stewart, Kenneth.
Thomson, John Archibald Glover.
Tulloch, Robert.
Walker, James (Whiteinch).
Watson, James Gibb.
Watson, John Alexander.
White, James Hanline.
Whitelaw, John.
Wilkie, Helen.
Wilson, Isabella.
Wilson, Kate.
Wishart, George Baird.
Wright, John Murray.

### FRENCH.

*October*, 1901.

Archibald, Robert.
Bennie, Catherine (II. Hon.).
Cant, Thomas.
Hardy, Margaret Mary.
Lambie, Margaret Bryson.
M‘Arthur, Jane.

*April*, 1902.

Arnott, Annie Jane.
Bickett, Margaret Muir.
Biggar, Mary Campbell.
Chalmers, Maggie (II. Hon.).
Cowan, Arthur Aitken.
Gordon, Ida M‘Gregor.
Gordon, Monica Mary.
Green, Janet.
Hair, Duncan Davidson.
Henderson, William Williamson.
Herriot, Jane Cumstie Williamson.
Hill, Ella Smith.
Hunter, Mary Violet.
Kettle, Margaret Crow.
Killin, Margaret Montgomerie.
M‘Adam, William.
M‘Arthur, James.
M‘Creath, James Fergusson.
M‘Culloch, Mary Malcolm.
Mackenzie, Evandrina MacIver.
Mackenzie, Janet Millen.
M‘Millan, John.
Mathieson, Mary Daisy.
Paul, Agnes Jane.
Russell, Bessie.
Scott, Elizabeth Wilkie.
Scott, Margaret Aitkenhead (I. Hon.).
Skinner, Mary Ann Campbell.
Sprunt, Annie Crichton.
Stuart, Mary Isabelle Moody.
Thomson, Mary Emilie.
Walker, John Barnhill.
Watson, James Gibb.
Weir, Marion.
Wordie, William.
Workman, Winifred.

### GERMAN.

*October*, 1901.—Bennie, Catherine (II. Hon.).

*April*, 1902.

Arnott, Annie Jane.
Biggar, Mary Campbell.
Chalmers, Maggie (II. Hon.).
Craig, Arthur.
Downes, Arthur Drummond.
Green, Janet.
Lamb, Jessie Fletcher.
Scott, Elizabeth Wilkie.
Scott, Margaret Aitkenhead (I. Hon.).
Sinclair, Mary Graham.
Thompson, Ella Maclean.

### *B.—MENTAL PHILOSOPHY.*

#### LOGIC AND METAPHYSICS.

*October*, 1901.

Brunton, David Stewart.
Cameron, Thomas Bell.
Dudgeon, Peter.
Goodfellow, Robert Kerr.
Gordon, George Stuart.
Harvey, George Thomson.
M'Murtrie, John Malcolm.
Moffatt, Alexander.
Nisbet, William.
Selkirk, William.
Wiseman, William Richard (II. Hon.).
Young, Robert Comingo.

*April*, 1902.

Adam, Colin Black.
Anderson, Euphemia Logan Cairnie.
Anderson, Thomas.
Archibald, Robert.
Arnott, Annie Jane.
Baillie, John.
Baird, Andrew Cumming.
Barnes, Edgar.
Barr, Robert William.
Black, Norman Annandale.
Black, William Duncan Thomson.
Black, William Paterson.
Blair, Duncan.
Brechin, John Chalmers.
Brown, Alexander.
Brown, William (Bothwell).
Buchan, James Walter.
Buchanan, James Robertson.
Cameron, John Reid.
Campbell, Archibald.
Cant, Thomas.
Colquhoun, John.
Cook, John.
Cook, Thomas Kinnear.
Cowan, Arthur Aitken.
Craig, Arthur.
Cromar, Frederick Gordon.
Cross, Robert Nicol.
Cullen, Charles.
Dick, David Auchinvole.
Dobson, James Ritchie.
Dunn, Herbert.
Farish, Charles William.
Ferguson, George.
Ferguson, William.
Fletcher, Henry Mungles.
Gibson, John.
Grant, Jessie Elizabeth Gollan.
Grieve, George.
Harley, Alexander Hamilton.
Harvey, Margaret Arthur.
Henderson, Walter.
Hughes, Joan Dorothea.
Hunter, Jenny Gibson.
Hunter, Mary Violet.
Hutton, Frederick Robert Hughes.
Jarvie, William Robert.
Jeffrey, George Johnstone.
Johnson, Donald.
Keddie, Janey Aitken.
Kettle, Margaret Crow.
Lawson, Gavin.
Lean, Ronald.
Leitch, Donald.
Lindsay, Hilda Oliphant.
Love, Arthur Patrick.
Macalpine, Alice Hilda.
M'Arthur, Jane.
M'Bain, Annie.
M'Callum, Dugald.
M'Culloch, Mary Malcolm.
MacDougall, William.
M'Ewen, Thomas.
Macfarlane, Mary.
Mackay, Grace Christina.
Mackenzie, Catherine Ferguson.
Mackenzie, Janet Millen.
Mackenzie Robert.
M'Kerrow, Margaret Elizabeth.
M'Kinlay, Robert.

M'Kinney, Alexander Doctor.
Mackinnon, Mary Isabella.
M'Laughlin, John.
MacLean, Alexander Cockburn.
Macmillan, Robt. Alexander Cameron.
M'Pheat, William.
Malcolm, William Risk.
Millen, James White.
More, James William.
Morgan, Irving Moffat.
Morison, Robert M'Kenzie.
Morrison, Lina.
Mortimer, John Chapple.
Muir, Euphemia Helen Hunter.
Muir, Morton Mungo.
Muirhead, Alfred Patman.
Murray, Alexander.
Nicholson, Clark.
O'Sullivan, Nora.
Patrick, Adam.
Paul, Agnes Jane.
Pennycook, George.
Philip, Annie Glenday.
Porteous, James Smith.
Quig, Gordon.
Ross, Jane Helen.
Scott, Elizabeth Wilkie.
Scott, James Edward.
Scott, John Waugh.
Shaw, Archibald.
Simpson, Herbert Muir.
Sinclair, Mary Graham.
Smith, Grace Anne.
Strachan, William.
Swan, John Arbuckle.
Thomson, John Archibald Glover.
Thomson, Mary Emilie.
Thomson, Robert Cleghorn.
Wilson, Alexander Robertson.
Wilson, Isabella.
Wilson, Mary Helen Renwick.
Wishart, John.
Workman, Winifred.
Wright, George.
Wright, John Murray.
Young, William Finlayson.

## MORAL PHILOSOPHY.

### *October*, 1901.

Fyfe, Alexander.
Gallagher, Mary Theresa.
Gordon, Monica Mary.
Lawrie, Alexander.
M'Culloch, Mary Malcolm.
Moir, James Campbell.
Mortimer, John Chapple.
Phillips, Martin.
Riddell, Thomas Park.
Selkirk, William.
Strathern, Robert Fairley.
Wiseman, William Richard (II. Hon.).

### *April*, 1902.

Aird, William.
Aitken, George.
Allison, Alexander Grant Kilpatrick.
Anderson, John (Langside).
Anderson, Thomas.
Arneil, Loudon.
Baird, Andrew Cumming.
Barr, Robert William.
Bickett, Margaret Muir.
Biggar, Mary Campbell.
Black, William Duncan Thomson.
Black, William Paterson.
Blackhall, Mary.
Blackstock, Charles Hugh.
Blackwood, Helen Ormiston.
Brown, John Dunlop.
Brown, William (Bothwell).
Campsie, William Alexander.
Carswell, Donald.
Chambers, Frances Sara.
Chisholm, Alexander.
Clark, George Frank.
Clark, John Sawers.
Clark, Mabel Beatrice.
Clark, William.
Cochran, Andrew.
Craig, Arthur.
Crawford, Archibald.
Cullen, Thomas Thompson.
Cupples, Joseph.
Dallas, Margaret.
Davidson, James Allan.
Dawson, Archibald.
Devine, James M'Donald.
Donaldson, John.
Downie, Jemima Wright.
Drape, Agnes Waugh.
Duncan, Margaret Lightbody.
Dunlop, Hugh Morton.
Dunn, Theodore Douglas.
Fleming, John Alexander.
George, John Campbell.

Gibson, John.
Gordon, John.
Grant, Robert.
Grant, William.
Green, Janet.
Grieve, George.
Hair, Duncan Davidson.
Hair, John (Muirkirk).
Harley, Alexander Hamilton.
Herriot, Jane Cumstie Williamson.
Howat, William.
Hutcheson, John.
Jarvie, William Robert.
Kerr, Elizabeth Craig.
Ketchen, Marjory Ogilvy.
Killin, Margaret Montgomerie.
Kirk, William Grant.
Knowles, Isobel Alexander.
Lang, William.
Lewis, John.
M'Arthur, Neil.
M'Arthur, Peter Cunningham.
M'Bryde, John.
M'Donald, Roderick Alexander.
Macdougall, Netta.
M'Elwain, James.
M'Gauley, John M'Lachlan.
Macgregor, Annie Murray.
M'Intosh, Robert Scott.
M'Iver, Alexander Matheson.
Mackenzie, Catherine Ferguson.
M'Laren, Archibald.
Maclean, Wilfred Gerald.
Macleod, John Stewart.
Macmillan, Ebenezer.
M'Pheat, William.
Maguire, Peter.
Main, John.
Mair, John (Paisley).
Mair, John (Pollokshields).
Manson, William Hislop.
Marr, James Henderson.
Martin, John.
Merry, Mary.
Middleton, John Clark.
Miller, James.
Morrison, Lina.
Muggoch, James Wilson.
Muir, Euphemia Helen Hunter.
Murray, Martin Ralston.
Nelson, Jannette Reid Bartholomew.
Paterson, Donald.
Paterson, Margarette Cunningham.
Paterson, Neil MacLeod.
Percy, Dugald Ferguson.
Phillips, James.
Philps, George Pixton.
Porteous, James Smith.
Rae, Richard.
Rattray, Edward Boase.
Reed, John William.
Reid, Maggie Miller.
Richards, Leyton Price.
Ritchie, Allan Marshall.
Robertson, Jane Isabel.
Rowse, Harold Charles.
Runciman, Agatha Rachel.
Scott, Robert (Paisley).
Shaw, Archibald.
Shaw, Walter.
Skinner, Mary Ann Campbell.
Smart, John.
Sprunt, Annie Crichton.
Stenhouse, David.
Stewart, John.
Strachan, William.
Thomson, Catherine Spence.
Towers, Thomas Dundas.
Waddell, Bryce Martin.
Wallace, William.
Watt, Robert Dickie.
Whitelaw, John.
Wright, George.
Young, William Finlayson.

### POLITICAL ECONOMY.

*October*, 1901.

Archibald, Robert.
Ballantyne, Alexander.
Cook, Thomas Kinnear.
Dyer, James Ferguson, M.A. (I. Hon.).[1]
Gordon, Monica Mary.
Harley, Alexander Hamilton.
Hay, John Primrose.
Loudon, William.
Riddell, Thomas Park.
Spens, Walter Thomas Patrick.
Steel, James Hall (II. Hon.).[1]
Turner, Stanley Horsfall (I. Hon.).[2]

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[1] With History.

[2] With Moral Philosophy.

*April*, 1902.

Adam, Conlin Black.
Bain, James.
Bain, John.
Beaton, Alexander.
Browning, Robert.
Campsie, William Alexander.
Clark, Donald James.
Cochrane, James.
Crawford, Archibald.
Cunningham, Robert.
Fleming, John Alexander.
Frew, James Mair.
Gilchrist, James Albert.
Horn, John Fraser.
Ketchen, Marjory Ogilvy.
Levine, Jacob.
Lindsay, William Macskimming.
Macalister, Robert Henry.
M'Arthur, Jane.
M'Callum, Dugald.
M'Clements, Robert Alexander.
M'Connachie, John Allan.
M'Gauley, John M'Lachlan.
MacInnes, John.
Mackenzie, James.
M'Neil, John.
M'Phun, Frances Mary.
Macvicar, Angus John.
Main, Archibald Naismith.
Morgan, Irving Moffat.
Ritchie, Allan Marshall.
Rogerson, Andrew William.
Rowse, Harold Charles.
Runciman, Agatha Rachel.
Russell, Albert.
Scott, Robert (Paisley).
Stevenson, James Hall.
Thomson, Robert Cleghorn.
Whitelaw, John.
Wilson, Alexander Robertson.
Wilson, Harold.

## THEORY, HISTORY, AND ART OF EDUCATION.

*October*, 1901.

Dalziel, Samuel James.
Duncan, Margaret Lightbody.
Duncan, Thomas.
Farquhar, James Rainy.
Hamilton, Joanna Findlay.
Latta, Mary Muir.
Lochhead, John Hamilton Barr.
Macanna, John.
M'Millan, Andrew.
Moffatt, Alexander.
Muir, Euphemia Helen Hunter.
Neilson, John.
Scorgie, Agnes Dalziel.
Smith, John (Falkirk).
Stewart, John.
Tulloch, Robert.
Wyllie, William.

*April*, 1902.

Alcorn, William Andrew.
Alexander, William.
Anderson, Margaret M'Kenzie.
Bell, William.
Bickett, Margaret Muir.
Blackwood, Helen Ormiston.
Brown, John (Fauldhouse).
Burns, James.
Clark, Mabel Beatrice.
Conn, Robert.
Dallas, Margaret.
Dewar, Robert.
Dobson, James Ritchie.
Dunn, Theodore Douglas.
Findlay, William Erskine.
Grant, Robert.
Grant, Sinclair.
Hamilton, Robert.
Harvey, Margaret Arthur.
Herriot, Jane Cumstie Williamson.
Howat, William.
Hunter, Jennie Cameron.
Johnson, Donald.
Kellow, Henry Arthur.
Kerr, William (Beith).
Killin, Margaret Montgomerie.
Laird, Lily Donaldson.
Lakin, Alexander.
Lapsley, John.
Leitch, Donald.
M'Arthur, Neil.
MacDougall, William.
Macfarlane, Robert.
M'Gill, Mary Watson.
Maclean, Wilfred Gerald.
M'Millan, John.
M'Millan, Malcolm.
M'Neill, Margaret.
M'Phee, John.
Mair, Margaret.

Masterton, Jessie Vallance.
Merry, Mary.
Morrison, Lina.
Orr, John Boyd.
Paterson, George.
Pennycook, George.
Percy, Dugald Ferguson.
Purdie, John.
Reid, William Kirkpatrick.
Runciman, Agatha Rachel.
Scott, William (Glasgow).
Skinner, Mary Ann Campbell.
Sprunt, Annie Crichton.
Steven, John Fraser.
Towers, Thomas Dundas.
Waddell, Bryce Martin.
Wallace, William.
Watt, Thomas Morrison.
Wilkie, Helen.
Young, Mary M'Cole.

### PHILOSOPHY OF LAW.

*October*, 1901.—Mitchell, James Alfred.

## *C.—SCIENCE.*

### MATHEMATICS.

*October*, 1901.

Allan, Francis.
Auld, William.
Auld, William James.
Bell, John.
Bell, Robert William.
Chambers, Frances Sarah.
Crawford, Archibald.
Dallas, Margaret.
Dick, David Auchinvole (II. Hon.).
Drape, Agnes Waugh.
Fleck, John MacPherson.
Fleming, John Alexander.
Forfar, David.
Gordon, George Stuart.
Gourlay, James Nash.
Grieve, Weir.
Hall, Hugh Lang.
Harvey, Margaret Arthur.
Hill, Ella Smith.
Ketchen, Marjory Ogilvy.
King, Archibald.
M'Connachie, John Allan.
MacInnes, John.
MacLean, Hector.
M'Quistan, Dougald Black (I. Hon.).
Malcolm, Alice Annie Lumsden.
Moir, James Campbell.
Morrison, Lina.
Motherwell, Margaret Jeffrey.
Muir, Morton Mungo.
Neilson, James Arthur.
Park, Graham.
Paul, Agnes Jane.
Ross, George.
Scorgie, Agnes Dalziel.
Shaw, Archibald.
Sim, Charles Gauld.
Smith, Finlay.
Somerville, Elizabeth.
Stirling, James Neilson (II. Hon.).
Sutherland, William (I. Hon.).
Walker, John Barnhill.
Wilson, Douglas Hamilton.
Wilson, Kate.
Wyllie, William.
Young, John Finlayson.

*April*, 1902.

Alcorn, William Andrew.
Alexander, William.
Allison, Alexander Grant Kilpatrick.
Arthur, David.
Baillie, John.
Baird, Andrew Cumming.
Ballantyne, James.
Barclay, James.
Blackstock, Charles Hugh.
Blair, James Wilson.
Borland, William Dunlop.
Boyce, Claud Alexander.
Brayne, Albert Frederic Lucas.
Brown, James Robert.
Brown, John (Fauldhouse).
Brown, William (Bothwell).
Brown, William (Paisley).
Buchanan, James Robertson.
Burns, James.
Calderwood, Andrew Fulton.
Cameron, John.
Carswell, Margaret Hunter.
Carter, Arthur John Jenkins.
Clark, George Frank.

Cockburn, James Hutchison.
Crichton, Alexander Pender.
Cross, Robert Nicol.
Donaldson, John.
Dudgeon, Peter.
Duncan, Mary.
Dunlop, James.
Dunn, Theodore Douglas.
Elliott, Gilbert Wilkie.
Falside, William James.
Grant, Robert Monteath.
Grant, William.
Hamilton, Robert (Glasgow).
Harvey, Jeanie Mitchell.
Hewitt, Jeanie Allan Telfer.
Hogg, Gilbert Pitcairn.
Howard, William.
Hubbard, Walter.
Hunter, Jennie Cameron.
Hutchison, Andrew.
Johnston, Robert Buchanan.
Johnstone, Mary M'Dougal Leckie.
Kedie, Annie Fraser.
Laird, Lily Donaldson.
Lambie, Henry.
Lambie, John.
Lang, John Finlayson.
Lapsley, John.
Lauder, Isa Esther.
Lindsay, Euphemia.
M'Adam, William.
M'Arthur, James.
M'Clements, Robert Alexander.
M'Clemont, Hugh.
M'Coll, John.
M'Cracken, Winnie Jane.
M'Culloch, Finlay.
Macdonald, Elsie Fraser.
Macdougall, Grace.
Macfarlane, John.
M'Gaulay, John M'Lachlan.
M'Gilchrist, Robina Douglas.
M'Gill, Martha.
M'Gill, Mary Watson.
Macgill, William Duncanson.
MacGregor, James Campbell.
M'Haffie, Isabella.
M'Intyre, Malcolm James.
Mackay, Alexander.
M'Kechnie, Duncan.
M'Kinnell, John Scott.
M'Laren, Duncan.
MacLean, Charles.
Maclean, Wilfred Gerald.
M'Nabb, James (II. Hon.).
M'Neill, John Campbell White.
M'Neill, Margaret.
Macphail, Janet Isabel.
MacRobert, Thomas Murray.
Main, David Williams.
Marr, William Isaac Hutcheon.
Masterton, Jessie Vallance.
Mathieson, Mary Daisy.
Millar, James.
Miller, Campbell Lamont.
Miller, James.
Miller, John MacNair.
Milligan, Isabella Margaret.
Moffatt, Alexander.
Mort, Frederick, M.A. (III. Hon.).
Muir, Helen.
Mungo, David Brown.
Murray, Thomas David King.
Neil, Jeanie Gemmill.
Nelson, Charles Gilbert.
Nelson, Isabella Ure.
Orr, Andrew.
Orr, John Boyd.
Paterson, George.
Paterson, John Neil MacLeod.
Patience, Edward.
Percy, Dugald Ferguson.
Philip, Annie Glenday.
Phillips, Harry Joseph.
Purdie, John.
Reid, John.
Reid, Thomas.
Ritchie, Flora.
Ross, Alexander David.
Russell, Bessie.
Scott, James Edward.
Scott, William (Stonehouse).
Simpson, John Dunlop.
Smith, Grace Anne.
Stephen, John Brown.
Steven, John Fraser.
Stewart, Thomas.
Stokes, George Duncan Campbell.
Sturgeon, John.
Thomson, John M'Phail.
Thomson, Mary Emilie.
Thomson, William John Johnston.
Watt, Thomas Morrison.
Weir, Marion.
White, William Dymock.
Whitecross, Williamina Chalmers.
Wordie, William.

## NATURAL PHILOSOPHY.

### *October*, 1901.

Dick, David Auchinvole (II. Hon.).
Hardie, William Towers.
Isbister, Lucy Hay.
Jarvie, William Robert.
Macintyre, Margaret.
M'Leod, Daniel.
Macnab, George.
M'Quistan, Dougald Black (I. Hon.).
Ross, Jane Helen.
Stirling, James Neilson (II. Hon.).
Sutherland, William (I. Hon.).
Wilson, Alexander Robertson.

### *April*, 1902.

Ackland, Dorothy.
Arthur, David.
Bell, John.
Blyth, Robert Oswald.
Brown, John Campbell.
Brown, William (Paisley).
Browning, Robert.
Campsie, William Alexander.
Clark, William.
Cranston, Andrew.
Cupples, Joseph.
Davidson, Francis.
Dick, David M'Culloch.
Dick, James.
Downes, Arthur Drummond.
Farquhar, James Rainy.
Forrest, Louise Margaret.
Frew, James Mair.
Grant, Sinclair.
Hair, Duncan Davidson.
Hair, John (Thornhill).
Hamilton, Robert (Cleland).
Harvie, Robert.
Hutchison, Andrew.
Inglis, Robert.
Jamieson, William.
Lang, John Finlayson.
Latta, Mary Muir.
Leckie, Robert White.
Lennox, William.
M'Arthur, Neil.
M'Dougall, Hugh.
M'Fadyen, James.
Macfarlane, John.
Macfarlane, Margaret Conchie Raphael.
Macfarlane, Robert.
M'Harg, James Adam.
M'Lelland, William.
M'Millan, David.
M'Nabb, James (II. Hon.).
Mair, John (Paisley).
Manson, William Hislop.
Middleton, John Clark.
Miller, John (Beith).
Mort, Frederick, M.A. (III. Hon.).
Murray, Thomas David King.
Rattray, Edward Boase.
Richards, Leyton Price.
Robertson, Richard Dunn.
Rogen, Alfred Sands.
Ross, Alexander David.
Russell, George.
Scott, Robert (Paisley).
Stokes, George Duncan Campbell.
Wardrop, Edward Hunter.
Watson, Donald Bannatyne.
Watson, James Gibb.
Watt, Robert Dickie.
Watters, Alexander Marshall.
Wishart, George Baird.

## CHEMISTRY.

### *October*, 1901.

Anderson, John (Newmilns).
Barbour, Alexander Cunninghame.
Craik, David.
Dale, Robert Wilson.
Elder, Arthur Granville Hepburn.
Houstoun, Robert Alexander.
Lauder, Isa Esther.
Mackenzie, Alexander Ramsay.
Manson, William Hislop.
Miller, William.
Ross, Jane Helen.
Thomson, David.
Winning, Thomas.

### *April*, 1902.

Barbour, Margaret.
Clark, John Sawers.
Docherty, John.
Grant, Sinclair.
Kirk, William Grant.
M'Millan, David.
Miller, John (Beith).
Watt, Robert Dickie.

### ZOOLOGY.

*October*, 1901.

Dunn, John Shaw.
Gallacher, Mary Theresa.
Greig, John Isdale.

### BOTANY.

*October*, 1901.

Ackland, Dorothy.
Aird, Janet Robertson.
Baird, Annie Agnes.
Greig, John Isdale.
Lindsay, James Hamilton.
Manson, William Hislop.

## *D.—HISTORY AND LAW.*

### HISTORY.

*October*, 1901.

Ferrier, Douglas.
Gilchrist, James Albert.
Haldane, John Rodger.
Johnston, Lucy Perfect.
Mackenzie, Robert.
MacMillan, Peter (III. Hon.).
M‘Murtrie, John Malcolm.
Montgomery, Alexander, M.A. (II Hon.).
Philps, George Pixton.
Selfridge, John.
Smith, Donald (Glasgow).

*April*, 1902.

Anderson, John (Langside).
Anderson, Thomas.
Ballantyne, Alexander.
Biggar, Matthew.
Blair, Duncan.
Brown, Alexander.
Campbell, Archibald.
Cant, Thomas.
Clark, Donald James.
Cochrane, James.
Cochburn, James Hutchison.
Cowan, Arthur Aitken.
Cromar, Frederick Gordon.
Cullen, Charles.
Davidson, James Allan.
Docherty, John.
Duncan, Andrew Rae.
Farquhar, James Rainy.
Ferguson, William.
Findlay, John Alexander.
Fleck, John MacPherson.
Forrest, Louise Margaret.
Gibson, John.
Harvey, Margaret Arthur.
Henderson, Walter.
Jeffrey, George Johnstone.
Jones, Elias Henry.
Kedie, Annie Fraser.
Kirkhope, Hugh.
Lindsay, Edith Margaret (II. Hon.).
Lindsay, Hilda Oliphant.
Lochhead, John Hamilton Barr.
Logan, Norman Russell.
Macalister, Robert Henry.
M‘Bride, William.
M‘Coll, John.
M‘Fadyen, James.
M‘Farlane, Margaret Conchie Raphael.
M‘Iver, Alexander Matheson.
Mackinnon, Mary Isabella.
Macmillan, Ebenezer.
M‘Neil, John.
Marr, James Henderson.
Martin, John.
More, James William.
Murray, Thomas David King.
Neilson, John.
O'Sullivan, Nora.
Paterson, Neil MacLeod.
Robertson, Jane Isabel.
Robertson, Margaret Thomson.
Scott, John M‘Naught.
Scoular, Andrew Findlay.
Simpson, John Dunlop.
Sinclair, Mary Graham.
Stevenson, Elsie Robertson.
Walker, George William.
Wilson, Mary Helen Renwick.
Wyllie, William.
Young, Robert Comingo.

### CONSTITUTIONAL LAW AND HISTORY.

*October*, 1901.—Cook, Thomas Kinnear.

*April*, 1902.

Buchan, James Walter.
Cameron, William Ernest.
Findlay, John Alexander.
Grieve, Weir.
Grieve, William Crawford.
Jamieson, William.
M'Dougall, Peter, M.A.
M'Ewen, Thomas.
Menzies, Henry Lindsay.
Neilson, James Arthur.
Wishart, John.

### ROMAN LAW.

*April*, 1902.

Brechin, John Chalmers.
Buchan, James Walter.
Cameron, William Ernest.
George, John Campbell.
M'Dougall, Hugh.
M'Ewen, Thomas.
Macharg, Ebenezer Maitland.
M'Laren, Archibald.
MacMillan, Peter.
Main, Archibald Naismith.
Mair, John (Pollokshields).
Millen, James White.
Neilson, James Arthur.
Ness, Robert Ralston.
Phillips, Harry Joseph.
Phillips, James.
Quig, Gordon.
Robertson, Thomas Graham.
Simpson, Herbert Muir.
Stewart, John William.
Vincent, Clarence James.
Wotherspoon, James Alexander.

### PUBLIC LAW.

*October*, 1901.—Mitchell, James Alfred.

## EXAMINATION OF CANDIDATES FOR THE ARMY.

### IN MATHEMATICS.

*October*, 1901.—Fleming, Harry Hamilton.

## PRELIMINARY EXAMINATION FOR DEGREES IN ARTS AND SCIENCE.

The following passed in the subjects indicated (L., Lower; I., Intermediate; H., Higher):—

*October*, 1901.

Adams, Alexander M'Clymont (English, L. Math., L. Latin).
Adams Andrew (L. Latin).
Aitkenhead, James (H. Math.).
Allan, Margaret Elizabeth (L. Latin).
Allison, Alexander Grant Kilpatrick (L. Latin).
Anderson, Charles Hendrie (L. Latin).
Anderson, John Dunlop (L. Latin).
Anderson, Robert (I. Math.).
Armstrong, Robert Stirling (I. Math.).
Bailey, Florence Winifred (English).
Barbour, Alexander Cunninghame (L. Latin).
Barbour, William (English, I. Math.).
Barclay, William (I.), (H. Latin, Dynamics).

Bayne, Alexander Robert (L. Math.).
Bayne, John Archibald Campbell (Dynamics).
Beaton, Alexander (English, L. Greek).
Beaumont, Thomas (H. Math.).
Beckett, William (English, L. Latin).
Bennett, Octavia Jane Ronald (H. Latin).
Bennett, William (L. Latin).
Bernard, Robert Mitchell (H. Math., L. Latin).
Black, James (English).
Black, Miss Loudon (H. Math.).
Blackstock, Charles Hugh (L. Latin).
Bole, Sarah Jane (L. Latin).
Borland, William Dunlop (Dynamics).
Boyd, Alexander Millar (H. Latin).
Boyle, William (L. Latin).
Brand, Wilhelmina Reid (H. Math.).
Brown, James Shaw (L. Greek).
Browning, Archibald (H. Math., Dynamics).
Buchanan, Andrew (H. Math., Dynamics).
Buchanan, Joseph Weir (English, L. Latin, L. Greek).
Burn, Jeannie (H. Math., L. Latin).
Calderwood, Andrew Fulton (H. Latin, Dynamics).
Cameron, Daniel (L. Latin, Dynamics).
Cameron, Donald (I. Math.).
Cameron, John (Mull), (I. Math., L. Latin, L. Greek.
Cameron, John (Nitshill), (I. Math., Dynamics).
Campbell, Duncan William (H. Math.).
Campbell, George (II.), (English).
Cantor, Aaron (English, H. Math., H. Latin, H. Greek).
Carter, Arthur John Jenkins (H. Latin, French).
Chambers, John (L. Latin).
Christie, James Reid (English, L. Latin).
Clark, Humphrey (L. Latin).
Clark, Margaret Elizabeth (English, L. Latin).
Coats, James Richardson (H. Math., Dynamics).
Collingwood, John Crawford (L. Latin).
Cook, Isaac (English, I. Math.).
Copland, John (H. Latin).
Corrie, Richard Clayton (L. Math.).
Cowan, Arthur Aitken (L. Greek).
Craig, Wylie Mackie (English, I. Math.).
Cram, Annie Gertrude (French).
Cromar, Frederick Gordon (L. Greek, Dynamics).
Cromb, Kate Stewart (English).
Cuthbertson, Robert (English, H. Math., H. Latin, French, Dynamics).
Darroch, John Alister (I. Math.)
Davidson, Francis (H. Greek).
Davidson, Gilbert Campbell (L. Math.).
Davidson, James Allan (L. Latin).
Dawson, Archibald (English, L. Latin).
Deans, Mary Kirkwood (I. Math).
Dimmer, Alfred Henry (L. Greek).
Dobbie, William Daniel (H. Math.).
Donald, Andrew (L. Latin).
Dow, William Johnstone (English, I. Math.).
Drummond, John (H. Math., L. Latin).

Dunlop, Jane Willock (I. Math.).
Ellis, Thomas (English, H. Math.).
Erskine, Jessie Richmond (L. Math.).
Farquharson, Margaret Milne M'Connachie (H. Math.).
Farrell, Frederick Arthur (H. Math.).
Fenter, Susie Ethel (L. Latin).
Ferguson, John Thomson (L. Greek).
Findlater, Alexandra (H. Math., L. Latin).
Finlayson, Elizabeth Campbell (English, I. Math., L. Latin).
France, George (L. Greek).
France, John Galbraith (L. Greek).
Fraser, George Muir (English).
Fraser, Robert (L. Math., H. Latin).
Fraser, William Colquhoun (L. Greek).
Fulton, William Maxwell (H. Greek).
Galbraith, Annie Isabel (L. Latin).
Gardiner, Jane Gould (I. Math.).
Gardner, Alexander (L. Latin).
Gardner, John Hyslop (Dynamics).
Garvan, Marion Elizabeth (L. Latin).
Gemmell, Margaret (English, L. Latin).
Georgoussis, Philopemen (Dynamics).
Gillies, Norman M'Leod (I. Math.).
Good, James (I. Math.).
Gordon, Donald Campbell Bryce (H. Latin).
Gordon, James (I. Math.).
Gordon, James Bryce (L. Math., L. Latin).
Graham, John (Jamestown), (English, I. Math.).
Grant, Robert Monteath (L. Greek).
Grant, William (L. Latin, French).
Gray, Agnes Paterson (L. Math.).
Gray, James (English).
Gray, James Gordon (English).
Gray, William (L. Latin).
Greenfield, Elizabeth Curle (L. Latin).
Greenlaw, Ebenezer Watt (L. Latin).
Grogan, Winifride (L. Latin).
Guthrie, Alice Margaret Blyth (I. Math.).
Haddow, Hugh Reid (L. Latin).
Haigh, Bernard Parker (French).
Hall, John (H. Math., L. Latin).
Hamilton, James Campbell Henderson (English, H. Latin, H. Greek).
Hamilton, Robert Russell (H. Math.).
Hannah, James (L. Greek).
Hardy, Margaret Mary (L. Latin).
Harper, Mary (I. Math.).
Harrison, Rhoda Gertrude (English).
Hartley, Sidney (French, Dynamics).
Harvey, James Lindsay (L. Latin).
Henderson, Geoffrey Steele (English, H. Math.).
Henderson, James (L. Latin).
Henderson, Samuel Leslie (H. Math., L. Latin).
Hendry, John M'Lean (I. Math.).
Heughan, William Telford (H. Math., H. Greek).
Hill, Janet Lang (English).
Hinkins, John (L. Math.).

Hogarth, Annetta Pollok (I. Math.).
Hogg, Gilbert Pitcairn (H. Greek).
Howard, William (I. Math., H. Latin, French).
Hughes, Joan Dorothea (L. Latin).
Hunter, George Anderson (English, I. Math., L. Latin).
Hunter, Henry David Harper (L. Latin).
Hunter, John Maurice (L. Latin).
Hunter, John Miller (H. Math., H. Greek).
Hunter, Thomas Downie (English).
Hutchinson, Duncan Bell (H. Math.).
Inglis, Robert (H. Math., L. Latin, L. Greek).
Iwane, Tomochika (I. Math., Dynamics, Japanese).
Jockel, Catherine Henrietta (L. Latin).
Johnson, Donald (H. Latin).
Johnston, John Ferguson (H. Math., L. Latin).
Keddie, Jane Aitken (H. Math.).
Kerr, Duncan John (L. Latin).
Kirk, Margaret Mary (English, I. Math., L. Latin).
Kirkwood, James (I. Math., L. Latin).
Kirkwood, John (French).
Kirkwood, Peter Scott (H. Math.).
Knowles, Isobel Alexander (L. Latin).
Knudsen, Agnes Othilie (English, German).
Laird, Lily Donaldson (H. Math.).
Lamb, Jessie Fletcher (L. Math.).
Lambie, John (L. Greek).
Lang, John Finlayson (L. Latin, L. Greek, Dynamics).
Latta, Elizabeth Simpson (English, I. Math., L. Latin).
Latta, Mary Muir (L. Latin).
Lauder, Isa Esther (L. Latin).
Law, John Bell (L. Math.).
Leiper, Eliza Boyd (English).
Leitch, Donald (L. Latin).
Lindsay, Robert Robertson (L. Latin).
Littlejohn, John (L. Latin, L. Greek).
Love, James Black (H. Math., L. Latin).
Love, Mary (H. Greek).
M'Alpine, Archibald (H. Math.).
M'Arthur, James (H. Math., L. Latin).
M'Coll, Robert (I. Math., L. Latin).
M'Creadie, Elizabeth (L. Latin).
M'Crorie, Annie (L. Latin).
Macdonald, Janet Sinclair (English).
Macfadzean, James (Dynamics).
Macfarlane, Ernest Benner Ker (Dynamics).
Macfarlane, George Gordon (English).
Macfaclane, John (L. Latin).
M'Farlane, Margaret Conchie Raphael (L. Latin).
Macfarlane, Mary (H. Math., L. Latin).
Macfarlane, Robert (Blackford), (L. Latin).
M'Gilchrist, Robina Douglas (H. Math.).
Macgregor, Arthur Esdaile (I. Math., H. Latin).
MacGregor, James Campbell (L. Latin, L. Greek).
M'Harg, James Adam (L. Latin).
M'Intosh, Robert Scott (H. Math., Dynamics).
M'Intyre, Malcolm (L. Latin).

M'Kechnie, Duncan (L. Latin).
M'Kechnie, Richard (I. Math.).
M'Kenzie, Archibald (English).
Mackenzie, Peter Murchison (L. Latin).
M'Kinlay, Robert (English, H. Greek).
M'Kinlay, Robert Cromwell (H. Math., L. Latin).
M'Kinney, Alexander Doctor (English, Dynamics).
Mackinnon, John Lachlan (I. Math.).
M'Kinnon, Malcolm (L. Latin).
M'Laren, Archibald (L. Latin).
MacLean, Alexander Cockburn (L. Latin).
M'Lean, James Walker (L. Latin).
Maclean, Wilfred Gerald (H. Greek, Dynamics).
Macleod, John Matheson (L. Greek).
MacLeod, Neil (I. Math., Dynamics).
Macleod, Norman (L. Math.).
M'Millan, Robert Kerr (L. Latin).
M'Murdo, James (L. Latin).
M'Nabb, William (English, I. Math., L. Latin).
M'Neill, Patrick Kerr (L. Latin).
Macnicol, Archibald Osborne (L. Latin).
M'Phail, Lachlan (H. Math.).
MacPherson, Donald (English).
M'Pherson, William Pettigrew (L. Greek).
Macphie, Donald (L. Latin).
M'Phun, Frances Mary (I. Math.).
MacRae, Donald Sutherland (L. Latin).
MacRobert, John (L. Latin).
Mabon, William (English, L. Math.).
Marr, William Isaac Hutcheon (H. Latin, L. Greek).
Marshall, Barbara Carswell (English).
Mathieson, Mary Daisy (H. Math.).
Maxton, Jessie M'Nicol Purdon (H. Math.).
Maxwell, John Maxwell Scott (H. Math., Dynamics).
Merry, Mary (I. Math.).
Milburn, Walter (L. Math.).
Millar, James (French).
Millar, John (I. Math., L. Latin).
Miller, Campbell Lamont (English, I. Math., H. Latin, H. Greek, French).
Miller, John (Motherwell), (L. Latin).
Miller, John MacNair (L. Greek, Dynamics).
Milligan, Isabella Margaret (H. Math.).
Milne, Helen Young (L. Latin).
Moore, James (H. Math., Dynamics).
More, James William (H. Greek).
Morison, Winifred Dougall (L. Math., L. Latin).
Morrison, John Coutts (Dynamics).
Morrison, Roderick (H. Math., H. Latin, L. Greek).
Mowat, Alexander (English, L. Math.).
Muir, Douglas Alexander George (H. Math., L. Greek).
Muirhead, Alfred Patman (L. Greek).
Munro, John Martin (I. Math., L. Latin).
Murray, Alexander (English).
Nelson, Ishbel Ure (L. Latin).
Niven, John (H. Latin).

O'Beirne, Andrew Thomson (L. Latin).
Orr, John Boyd (H. Math.).
Orr, John Reid (H. Math., L. Latin).
Oswald, Helen Johnston (L. Math.).
Pairman, George (L. Latin).
Paterson, Alexander Russell (English, I. Math.).
Paterson, Donald (L. Latin).
Paterson, George (H. Greek, Dynamics).
Paterson, William (L. Greek).
Paul, James (H. Latin, French, Dynamics).
Pearson, Catherine Rintoul (I. Math.).
Pearson, Mary (I. Math.).
Pennycook, George (L. Latin, Dynamics).
Pollock, Malcolm (H. Latin, Dynamics).
Potter, William (English).
Pritchard, Thomas Cuthbertson Leithead (I. Math.).
Rankin, Jessie Deans (English, French).
Reid, William Kilpatrick (L. Latin).
Reincke, Hans Augustus (English, H. Math., German, Dynamics).
Richmond, Robert Hill (L. Math.).
Robertson, Jane Isabel (H. Latin).
Robertson, Muriel (L. Latin, Italian).
Robertson, Stella (English, French).
Roden, Richard Dunn (I. Math., L. Greek).
Rogerson, John Stewart (L. Latin).
Ross, Alexander David (L. Latin).
Ross, Henry (H. Latin).
Ross, Lachlan M'Millan (L. Latin).
Rowse, Harold Charles (I. Math.).
Roxburgh, Robert Whyte (H. Math., H. Latin).
Rusk, Robert Robertson (H. Greek).
Russell, George (H. Latin).
Russell, James Gilchrist (L. Greek).
Russell, John (I. Math.).
Sage, Mary Dorothea (L. Latin).
Sanders, Helen (I. Math.).
Scott, Thomas Thripland (H. Math.).
Scott, William Ritchie Paton (L. Latin).
Sexton, George (I. Math., Dynamics).
Shankland, William (English, I. Math.).
Sheridan, Robert (H. Math., H. Latin, H. Greek).
Sievwright, John Smith (I. Math., L. Latin).
Simpson, Robert (English, H. Math., L. Latin).
Sinclair, Alexander Macleod (English).
Skeil, Alexander (H. Math., L. Latin).
Sloan, Tennant (H. Greek).
Slodre, Edmondo (French, Italian).
Smith, Gavin Trotman Brodie (English, I. Math.).
Smith, Hugh (H. Greek).
Smith, Walter Crawford (I. Math., L. Latin).
Steele, John Aulay (English, L. Math.).
Stephen, Campbell (H. Latin).
Stevenson, James (I. Math., L. Latin).
Stewart, Clementina Mitchell (H. Math.).
Stewart, James (L. Latin, L. Greek).
Stewart, Jane Gray (I. Math.).

Stewart, John William (H. Latin, L. Greek).
Stirling, William Miller (L. Latin).
Stuart, William Wylie (English, H. Math., H. Latin, L. Greek).
Sutherland, Maggie Millen Jeff (I. Math.).
Swan, John Arbuckle (L. Greek).
Thomson, James (English, H. Math.).
Thomson, John (English, I. Math., L. Latin).
Thomson, John M'Phail (L. Latin).
Thomson, William John Johnstone (Dynamics).
Tinto, John Ferguson (H. Latin, H. Greek).
Trafford, Henry Martyn (English, H. Math., Dynamics).
Tulloch, James Allan (English).
Tulloch, Robert (L. Latin).
Turnbull, Arthur (H. Math., H. Greek, French).
Waddington, Cecilia Jane (L. Latin).
Walker, James (Larkhall), (I. Math., L. Latin).
Walker, James (Whiteinch), (L. Latin).
Wardrop, Edward Hunter (L. Latin).
Warrand, William Connal (Dynamics).
Weir, Amy (French).
Westwater, James (L. Latin).
White, Alexander Mill (H. Math., L. Latin).
White, Charles Eadie Park (H. Math., H. Greek).
White, James Hanline (H. Math.).
Whitehead, William (H. Math., L. Latin).
Whitton, Helen Gilfillan (I. Math.).
Whytock, James (I. Math.).
Williamson, James (L. Latin, Dynamics).
Wilson, Andrew (L. Latin).
Wilson, Christian Alice (I. Math.).
Woodburn, John Murray (I. Math., H. Latin, H. Greek).
Wordie, William (French).
Workman, Winifred (French).
Wotherspoon, Catherine Brown (English).
Wright, George (H. Greek).
Wright, Robert James (H. Math., L. Latin).
Wylie, Robert Gilmour (L. Latin, L. Greek).
Young, George Ernest Robertson (I. Math., H. Greek).
Young, George Shiel (H. Math., Dynamics).
Young, John (English).
Young, John Mitchell (I. Math.).
Young, William (Perth), (English, H. Math., L. Latin, Dynamics)
Young, William (Stevenston), (English, L. Math.).
Yuille, William (I. Math.).

*April*, 1902.

Adams, Alexander M'Clymont (L. Latin, French).
Adams, Andrew (English, H. Latin).
Aitchison, William (H. Math., French).
Aitken, Hugh Hunter (H. Math., French).
Algie, William (H. Math., L. Latin).
Allan, Dorothy Spence (H. Latin).
Allan, Margaret Elizabeth (L. Latin).
Allison, Alexander Grant Kilpatrick (H. Latin).
Anderson, Charles Hendrie (H. Latin, French, Dynamics).
Anderson, Robert (H. Math., L. Latin).

Archibald, Robert Douglas (English).
Arthur, Marion Gilmour (English, French).
Bain, Margaret Watson (English).
Baine, Daniel Gibson (English, L. Math.).
Baird, David (I. Math., L. Latin, L. Greek).
Barbé, Adrien Espinasson (L. Math., H. Latin).
Barbour, Margaret (H. Latin).
Barbour, William (H. Math., L. Latin, Dynamics).
Barclay, William (II.), (L. Latin).
Barrie, Mary (L. Latin).
Baxter, William James (English, I. Math., H. Latin, L. Greek).
Bell, George (English, H. Math., H. Latin, French).
Bell, Margaret Scott (H. Math., L. Latin).
Bennett, Octavia Jane Ronald (H. Math.).
Bennett, William (L. Latin).
Bernard, Robert Mitchell (H. Latin, Dynamics).
Bilsland, Robert (H. Math., Dynamics).
Black, Duncan (English, L. Latin, Dynamics).
Black, John Bennett (English, H. Math., H. Latin, L. Greek, Dynamics).
Blair, Frank Ritchie (H. Math., H. Latin).
Blyth, Thomas (English, I. Math., H. Latin, French).
Borrajo, Bernard Cuthbert (H. Math.).
Bow, Jean Wilson (H. Math., L. Latin).
Boyle, David (English, L. Math.).
Bradshaw, John Archibald (H. Math.).
Brand, Wilhelmina Reid (H. Latin, French).
Brooke, Phoebe Martha (H. Math., L. Latin).
Brown, Agnes Cowie Steel (H. Latin).
Brown, David M'Culloch (L. Greek).
Brown, James Shaw (L. Latin, L. Greek).
Brown, John Campbell (H. Latin).
Browning, Archibald (English, L. Greek).
Buchan, William (I. Math., L. Latin, French).
Buchanan, Joseph Weir (H. Math., L. Latin, L. Greek).
Butler, Joseph Percival Jarvis (H. Math.).
Cairns, Marianne Taylor (H. Math., L. Latin).
Callum, Elizabeth Pearson (English, H. Latin).
Cameron, Daniel (H. Latin).
Cameron, Hector (H. Latin, L. Greek).
Cameron, John (Mull), (L. Latin).
Cameron, John (Nitshill), (H. Math., L. Latin).
Campbell, Archibald Angus (H. Math., H. Latin, L. Greek).
Campbell, Catherine (H. Math.).
Campbell, Duncan William (L. Latin, French).
Campbell, James Oswald (English, H. Math., H. Latin, French).
Campbell, Malcolm George (English, H. Latin).
Campbell, William Ramsay (French, Dynamics).
Carson, Thomas Walker (I. Math., L. Latin, L. Greek).
Christie, James Reid (H. Math., L. Greek).
Clark, Donald James (L. Latin).
Clark, Humphrey (L. Latin, Dynamics).
Clark, Margaret Elizabeth (I. Math., L. Latin, French).
Climie, Jenny Cumming (I. Math.).
Collingwood, John Crawford (English, L. Greek).
Colquhoun, Robert Fletcher (English, I. Math., H. Latin, L. Greek).

Connell, Kenneth M'Kenzie (English, I. Math.).
Cook, Isaac (English, I. Math., H. Latin).
Copland, John (H. Latin, French).
Cowie, John Yeudall (English).
Cowie, Margaret Rennie (English, H. Latin, French).
Cowie, Peter Buchan Watson (English, L. Math.).
Craig, George Mather (French).
Craig, Wylie Mackie (H. Math., L. Latin).
Crawford, Frank Malcolm Lane (I. Math.).
Cullen, Charles (L. Latin).
Currie, Neil Maclean (L. Latin).
Darroch, John Alister (H. Math.).
Dawson, William (English, H. Math., Dynamics).
Dick, Jennie (L. Latin).
Donaldson, John (H. Latin).
Dow, William Johnstone, (H. Math., L. Latin, French).
Downes, Arthur Drummond (H. Latin).
Downie, David (English, L. Latin).
Drummond, John (English, L. Latin, Dynamics).
Duncan, Mary (L. Latin).
Dunnet, Elizabeth (H. Latin).
Easton, Mary Rodgerson (L. Latin).
Edgar, John Henderson (H. Math.).
Edward, Jeanie (H. Latin).
Ellis, Thomas (Dynamics).
Falconer, John Alexander (H. Math., French).
Falconer, William Alexander (English, H. Latin).
Falside, William James (H. Latin, L. Greek).
Farquharson, Margaret Milne M'Connachie (L. Latin).
Fenter, Susan Ethel (L. Latin).
Ferguson, John Thomson (L. Latin).
Finlayson, Elizabeth Campbell (L. Latin, French).
Fleming, James Brown Montgomerie (L. Latin).
Fletcher, George (H. Math.).
Forsyth, Charles (English, H. Math., H. Latin, L. Greek).
Fotheringham, John Gillies (English).
France, George (English, H. Greek).
France, John Galbraith (English, H. Greek).
Fraser, William Colquhoun (H. Latin, L. Greek).
Fyfe, Henry Halcro (L. Latin).
Galbraith, Annie Isabel (H. Latin).
Galbraith, William Scott (L. Math.).
Gardiner, James (I. Math.).
Gardiner, James Henderson (I. Math., L. Latin).
Gardiner, William Roberts (English, H. Math., H. Latin).
Gardner, Alexander (French).
Gardner, John Hyslop (English, H. Math., German).
Garvan, Marion Elizabeth (L. Latin).
Garvie, William (English, I. Math., L. Latin).
Gemmell, Margaret (H. Latin).
Georgoussis, Philopemen (English, H. Math.).
Gibson, Georgina (English, H. Latin, H. Greek).
Gilbert, William John (English, H. Latin).
Gilchrist, James Albert (H. Math.).
Gilchrist, William Shand (English, H. Math., H. Latin, French).
Gillies, Norman M'Leod (I. Math., L. Latin).

Glen, Thomas (H. Math., L. Latin).
Good, James (English, H. Math., L. Latin, French).
Gordon, Albert William (H. Math., L. Latin).
Gordon, Donald Campbell Bryce (H. Latin).
Gordon, James (H. Math., L. Latin, L. Greek).
Gordon, James Bryce (L. Math., H. Latin).
Graham, John (Jamestown) (English, I. Math., H. Latin).
Grahame, John Alexander (L. Latin, L. Greek).
Gray, Agnes Paterson (L. Math., L. Latin).
Gray, James Gordon (H. Math., French, Dynamics).
Gray, Margaret Muriel (English, French).
Gray, Thomas Edmonstone (English, H. Latin).
Gray, William (L. Latin).
Greenfield, Elizabeth Curle (H. Math , H. Latin, French).
Gueritz, Elton Lawrence (L. Math., L. Latin, H. Greek).
Haddow, Hugh Reid (L. Latin).
Hall, John (L. Latin).
Halley, Matthew White (H. Math.).
Hamilton, John (L. Latin).
Hamilton, Robert Russell (L. Latin).
Hannah, James (H. Latin).
Hannay, Ethel Crichton (English, L. Latin, German).
Hardy, Margaret Mary (H. Latin).
Harley, Alexander Hamilton (Hebrew).
Harper, Agnes (H. Math., H. Latin).
Harvey, James Lindsay (L. Latin).
Harvey, Jeanie Mitchell (H. Latin).
Henderson, James (H. Latin).
Henderson, John Alexander (H. Math., Dynamics).
Henderson, Samuel Leslie (English, L. Latin).
Hendry, John M'Lean (I. Math., L. Latin, L. Greek).
Hendry, Margaret (H. Math., L. Latin).
Henry, Moses (English, L. Latin).
Higgins, William (English, I. Math., H. Latin, French).
Hinkins, John (English, H. Math.).
Hodge, Harry Fairlie (French).
Holmes, Isabella (English, H. Math., L. Latin, French).
Holmes, Mary Love (H. Math., Dynamics).
Houston, James Blair (H. Math., L. Latin).
Houston, Jessie Spalding (H. Math., H. Latin).
Houston, Matthew Barr (I. Math., L. Latin, French).
Hughes, Joan Dorothea (H. Latin).
Hunt, Katharine Janet (English, H. Math., L. Latin, French).
Hunter, George Anderson (H. Math., H. Latin).
Hunter, Helen Mackintosh (H. Math., H. Latin).
Hunter, John Mercer (Dynamics).
Hunter, Mary (I. Math.).
Hunter, Thomas Downie (English, Dynamics).
Hutchinson, Duncan Bell (H. Latin, Dynamics).
Hutton, Robert Fotheringham (H. Math.).
Irvine, Annie Park (I. Math., H. Latin).
Jackson, Colin Mackay (English, German).
Jockel, Catherine Henrietta (H. Math , H. Latin).
Johnston, John Ferguson (H. Latin, L. Greek).
Johnston, William George (I. Math., L. Greek).
Keane, James (L. Latin, Dynamics).

Kelso, Robert John (H. Math., L. Latin).
Kemp, Kenneth Campbell (L. Latin).
Kennedy, David (L. Latin, L. Greek, Dynamics).
Kennedy, Margaret Auld (English, French).
Kennedy, Thomas (L. Latin).
Kerr, Andrew Alan (L. Math., H. Latin, French).
Kerr, Dugald Macfie (L. Latin, Dynamics).
Kerr, James Reid (English, L. Latin, French).
Kerr, John Alexander (I. Math., L. Latin).
King, Margaret (H. Latin).
King, William (H. Math., H. Latin, H. Greek, French).
Kinloch, Andrew Duncan (English).
Kirk, Margaret Mary (H. Latin, French).
Kirkwood, Peter Scott (French).
Kivlichan, William (English, I. Math.).
Krasser, Marie Friedrike (H. Math., H. Latin).
Lang, William Paterson (English, H. Math., L. Latin, Dynamics).
Latta, Elizabeth Simpson (H. Math., L. Latin).
Lauder, Isa Esther (H. Latin).
Lawson, Gavin (L. Greek).
Leask, Alexander (I. Math.).
Lees, David (English, L. Latin).
Lees, Kate Muir (H. Math.).
Leighton, George Simpson Blair (H. Math., H. Latin, French).
Leiper, Eliza Boyd (H. Math., L. Latin).
Leitch, Patrick Arthur (Dynamics).
Lindsay, Robert Robertson (H. Latin, Dynamics).
Littlejohn, John (L. Latin, L. Greek, Dynamics).
Locke, Helen (H. Math., L. Latin).
Logan, Jessie Grant Morrison (I. Math., H. Latin).
Love, James Black (H. Latin).
Lyon, Agnes Mary (L. Latin).
M'Alpine, Archibald (English, L. Latin, French)
M'Bain, Elspeth (L. Latin).
M'Beath, John (L. Math.).
M'Bride, Mary Robertson (English, French).
Maccallum, Alexander Meikle (English).
M'Coll, Robert (H. Math., L. Latin).
M'Conville, John (English).
M'Creadie, Elizabeth (H. Math., H. Latin).
M'Crorie, Annie (L. Latin, French).
M'Culloch, William Stevenson (English, I. Math.).
Macdonald. John Finlay (English).
M'Donald, Margaret (I. Math., L. Latin).
M'Donald, Roderick Alexander (L. Latin).
M'Donald, William Henry (English, H. Math., L. Latin, Dynamics).
Macdougall, Martha Park (English, I. Math., H. Latin, German).
M'Ewen, Christina (H. Math.).
M'Fadyen, Mortimer (English, H. Latin).
Macfadzean, James (Dynamics).
M'Farlane, Jeannette (English, French).
Macfarlane, John (L. Latin, Dynamics).
Macfarlane, Mary (H. Latin).
M'Geachin, Margaret Allan (L. Latin, French).
M'Gilchrist, Robina Douglas (H. Latin).
MacGillivray, James Stewart (I. Math.).

MacGregor, James Campbell (H. Latin, L. Greek).
M'Gregor, John (H. Math., L. Latin).
M'Gregor, Joseph (L. Latin).
M'Gregor, Josiah Gilray (I. Math., L. Latin, French).
M'Harg, James Adam (L. Latin).
M'Ilroy, Susan (L. Latin).
M'Intosh, Robert Scott (L. Latin).
Mackay, Grace Christina (L. Latin).
M'Kay, Henry (I. Math.).
Mackay, Joseph (H. Math., L. Latin).
Mackay, Kenneth (English, H. Math., L. Latin).
M'Kendrick, Thomas Brownlie (L. Math.).
Mackendrick, William (English, H. Math.).
Mackenzie, Alexander Ramsay (H. Greek).
Mackenzie, Bertha Agnes (H. Math.).
Mackenzie, Evandrina MacIver (H. Latin).
Mackenzie, Peter Murchison (H. Latin).
Mackenzie, Robert (I. Math.).
Mackie, Janetta Inglis Wyllie (H. Math., L. Latin).
M'Kinlay, Robert Cromwell (L. Latin).
M'Kinnon, Jessie Kennedy (L. Latin).
M'Kinnon, Malcolm (H. Math., H. Latin).
MacLean, Alexander Fraser (English, I. Math., L. Latin).
M'Lean, Archibald (English, H. Math., L. Latin, L. Greek).
Maclean, John (Pollokshaws), (L. Latin).
Macleod, Malcolm (L. Latin).
MacLeod, Margaret Catherine (English).
M'Leod, Mary M'Iver (L. Math.).
MacLeod, Neil (H. Math., L. Latin).
Macleod, Norman (English, H. Math., L. Latin).
MacMillan, Elizabeth (English, L. Latin).
Macmillan, Robert Alex. Cameron (Hebrew).
M'Millan, Robert Kerr (L. Math., L. Latin, L. Greek).
M'Millan William (English).
M'Minn, William (English, H. Math., H. Latin, French).
MacNab, David (English, L. Latin).
MacNabb, Christian Wallace (I. Math., French).
M'Neill, Florence Marion (L. Latin, French).
Macnicol, Archibald Osborne (L. Latin).
M'Phail, Lachlan (L. Latin).
Macphie, Donald (L. Latin).
M'Rae, Alexander (H. Latin).
M'Rae, Catherine Ferguson (English, H. Math.).
Macrae, Malcolm Beaton (H. Math., L. Latin, Dynamics).
M'Shee, John (English, L. Latin).
M'William, Jessie Stewart (French).
Main, James Hunter (English, H. Math., L. Latin, L. Greek, Dynamics).
Mathieson, Mary Daisy (H. Latin).
Maxton, Jessie M'Nicol Purdon (L. Latin).
Maxwell, James (L. Latin).
Mickel, Jane Nicol (I. Math., L. Latin).
Milburn, Walter (L. Math., H. Latin, L. Greek).
Millar, John (H. Math., L. Latin).
Millen, James White (H. Math.).
Miller, John (Motherwell), (L. Latin).
Milligan, John Donald (French, Dynamics).

Milne, James Gray (English, H. Math., H. Latin, L. Greek).
Milne, William Murray (H. Math., L. Latin, French).
Mitchell, Helen Armour (L. Latin).
Mitchell, William (L. Latin).
Monie, Matthew Morton (I. Math., L. Latin).
Montgomerie, Duncan M'Nicoll (English, French).
Montgomerie, Jane Love (L. Math., L. Latin, French).
Morison, Elizabeth Gillies (L. Latin).
Morison, Winifred Dougall (H. Latin).
Morrison, Finlay (English, H. Math., L. Latin, French).
Morrison, Grace (L. Latin).
Morrison, James (H. Latin).
Mowat, Alexander (I. Math., L. Latin).
Muir, Douglas Alexander George (H. Greek).
Muir, Helen (H. Greek).
Muir, William (Dynamics).
Muirhead, Alfred Patman (L. Greek).
Munro, John Martin (I. Math., H. Latin, French).
Murray, Helen Downie (L. Math., L. Latin, French).
Napier, Andrew Dunseath (H. Math.).
Napier, James (L. Math., H. Latin, L. Greek).
Neil, Jeanie Gemmill (H. Latin).
Neish, Penelope Sangster (H. Latin).
Niven Bessie (H. Math., L. Latin).
Niven, John (Dynamics).
Norwell, Robert Nicol (H. Math.).
Notman, Thomas (English, I. Math., L. Latin, Dynamics,.
O'Beirne, Andrew Thomson (English, H. Math., L. Latin, French).
O'Hare, Thomas Alphonsus (English).
Omand, George Gair (English, L. Latin).
Orr. John Reid (L. Latin, L. Greek).
Oswald, Helen Johnston (L. Latin, French).
Pairman, George (H. Latin, Dynamics).
Paterson, Alexander Russell (H. Math., L. Latin, French).
Paterson, Hector MacLeod (English, L. Math.).
Paterson, James Dunlop (English, H. Math., H. Latin, H. Greek, French).
Patrick, Samuel Barr (English).
Pearson, Jeanie Davidson (H. Latin).
Pearson Mary (I. Math.).
Pollock, James Macdougall (English, H. Latin, French).
Potter, William (H. Latin, H. Greek).
Priestley, John (H. Math.).
Pritchard, Thomas Cuthbertson Leithead, (H. Math., L. Latin).
Proudfoot, Mary Stuart (L. Math., L. Latin).
Purves, George Thomson (I. Math.).
Rae, Samuel (I. Math., L. Latin).
Rankin, Nicol M'Nicoll (English, H. Math., L. Latin).
Reid, Jane Glendinning Seaton (English).
Reid, John (Lochwinnoch), (English, L. Latin).
Reid, William (I. Math.).
Richmond, William (English, H. Latin, French).
Riddell, Elizabeth (English).
Ritchie, Robert (H. Math.).
Robertson, Annie Stewart (H. Math., L. Latin).
Robertson, Isabella Beatrice (H. Math., H. Latin).

Robertson, Janet Torrance (H. Latin).
Robertson, John (L. Math., L. Greek).
Robertson, Muriel (H. Latin, Italian).
Robertson, Olive (L. Latin).
Rodger, John Leitch (L. Latin).
Rogerson, John Stewart (H. Latin).
Ronald, William Elder (Dynamics).
Ross, George Mill (H. Math., L. Latin).
Ross, John (H. Math., H. Latin).
Ross, Lachlan M'Millan (L. Latin).
Roxburgh, Robert Whyte (French).
Safeley, John (H. Math.).
Sage, Mary Dorothea (H. Math., L. Latin).
Sandilands, James Hamilton (Dynamics).
Savage, Helen (L. Latin).
Scott, Jean Young (H. Latin).
Scott, John Simon (L. Latin).
Scott, Thomas Thripland (L. Latin, Dynamics).
Scott, William Ritchie Paton (English, L. Latin).
Sexton, George (English, H. Math.).
Shankland, William (H. Math., L. Latin, Dynamics).
Shanks, Henry (L. Latin).
Shaw, Crissie Hamilton (English, L. Latin).
Sievwright, John Smith (H. Math., French).
Simpson, Mary (H. Math., L. Latin).
Simpson, Robert (H. Latin, French).
Simpson, Thomas Paul (L. Latin, Dynamics).
Sinclair, Annie Macadam (L. Math., French).
Sinclair, Donald (L. Latin).
Sinclair, John (L. Latin).
Skeil, Alexander (H. Latin, French).
Slodre, Edmondo (English, I. Math., Italian).
Smith, Andrew Brabner (I. Math.).
Smith, Jessie (L. Latin).
Smith, Jessie Murdoch (H. Latin).
Smith, Sydney (English, H. Latin).
Smith, Walter Crawford (H. Math., L. Latin, French).
Snedden, John (English, H. Math., L. Latin).
Sommerville, William (H. Math., H. Latin).
Spence, Isabella (L. Latin).
Stalker, Marianne Dorothy (English, H. Math., L. Latin, French).
Steel, John Aulay (H. Math., L. Latin, Dynamics).
Stephen, Campbell (L. Greek, Dynamics).
Stevenson, James (L. Latin).
Stevenson, William (H. Math., L. Latin, Dynamics).
Stewart, George (H. Math., L. Latin).
Stewart, James (Lochee), (English, H. Latin, L. Greek).
Stewart, John (English).
Stirling, William Miller (H. Latin, L. Greek).
Strathie, Ella (English, H. Math., H. Latin, L. Greek).
Struthers, Lilian (H. Math., H. Latin).
Summers, James (English).
Sutherland, Maggie Millen Jeffs (H. Math).
Tannock, James Ferguson (English, H. Math., Dynamics).
Thomson, Annie (H. Latin).
Thomson, James (Airdrie), (L. Latin).

Thomson, James (Millerston), (H. Latin).
Thomson, John (H. Math., H. Latin).
Thomson, William Henderson (English, L. Math., L. Latin).
Trafford, Henry Martyn (H. Latin).
Tulloch, James Allan (I. Math., L. Latin).
Tulloch, Robert (L. Latin).
Turner, John (English, L. Latin).
Turner, Thomas Lindsay (English, L. Latin).
Twiss, Percy Joseph (I. Math.).
Twist, Edith (English, French).
Waddington, Cecilia Jane (H. Latin).
Waddington, Mary Margaret (H. Latin).
Walker, Hector (L. Latin).
Walker, James (Larkhall), (H. Math., L. Latin).
Wardrop, Edward Hunter (H. Latin).
Waugh, Margaret Blackwood (H. Math., H. Latin, French).
Weir, Amy (English).
Weir, Ralph Sommerville (English, H. Math., L. Latin, Dynamics).
Westwater, James (L. Latin).
White, Alexander Mill (H. Latin, French).
Whitehead, William (H. Latin).
Whitson, Edith Mary (L. Math., L. Latin).
Whytock, James (H. Math., L. Latin, Dynamics).
Williams, Marjorie Kate (English, French).
Williamson, James (H. Latin, L. Greek).
Wilson, Christian Alice (H. Math., L. Latin).
Wilson, Kate (H. Greek).
Woodburn, George Hoggan (L. Latin).
Wright, Robert James (H. Latin, Dynamics).
Wylie, Robert Gilmour (H. Latin).
Wyllie, Jessie (L. Latin).
Young, Andrew (English, H. Math., L. Latin).
Young, John (H. Latin, French).
Young, William Finlayson (H. Latin).
Yuille, William (H. Math., L. Latin).

## PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.

The following passed in the subjects indicated :

*October*, 1901.

Anderson, David (French).
Barr, Christina Hardy (English, Math., French).
Barr, James Starke (Math., French).
Berry, Cecil (Math.).
Bisset, John Henry (Latin, Math., French).
Blair, Robert (English).
Brash, Charles (English, Math.).
Brown, Alfred Howell (French).
Brown, Robert (English).
Brownlie, Arthur William (Math.).
Buchan, Martha Maclean (Math.).
Campbell, William Archibald (Latin).
Coats, John Humphrey James Victor (English, Latin, Math., French).
Coggans, James Joseph (Latin).

Coutts, James (English, Latin, Math., German).
Craig, Thomas Lawson (English, Latin, Math., French).
Donald, Robert (Latin, French).
Dunsmuir, Allan (English, Latin, Math., French).
Eaton, Ernest Milne (English, Latin, Math., French).
Fairley, David (Math.)
Ferguson, Thomas Baird (English).
Fleming, Matthew Hamilton (French).
Gallagher, Florence Anne (English, Math.).
Gilfillan, William (Greek).
Gowans, James Dakers (Math.).
Grahame, James Fraser (English).
Granger, Henry Maxwell (French).
Gudgeon, Robert Ralston Macintosh (Math.).
Hamilton, David (English, Latin, Math., German).
Harkin, Michael (Math., French).
Henderson, Harold Eugene (English, Latin, Math., French).
Henderson, John Mitchell (English, Latin, Math., French).
Hutton, Andrew James (English, Math.).
Johnson, Neil Archy Macdonald (English, Latin, Math., Greek).
Leishman, Thomas Forrest Matheson (English).
Ligertwood, George (English, Latin, Math., French).
M'Call, Alexander (Latin, Math.).
M'Call, John (Math.).
M'Callum, Hugh (English).
M'Ewan, James Hamilton (English, French).
M'Kellar, William Anderson (Math., French).
M'Kendrick, William (English, Math.).
M'Lachlan, Allison David (French).
Maclachlan, Donald Cameron (English, Math.).
Macmillan, Thomas Dalgliesh (English).
Macpherson, Alexander Cameron (English, Math., French).
MacRae, Murdo Mackenzie (English, Latin, Math., German).
Makarius, Saleem (English, Math., French, Arabic).
Marshall, Mr. Isa Carswell (German).
Martin, Francis William (Latin, French).
Matheson, William (Math.).
Mathieson, David Rogerson (English, Math., French).
Matthews, Alphonsus (English, Latin, Math., French).
Morton, Hugh (Latin).
Muir, John Moncrieff (French).
Naismith, Andrew (French).
Park, David Macjannet (English, Math.).
Paterson, Hugh (English, Math.).
Paul, James (Latin, Greek).
Pollock, William (Math.).
Renton, Donald (English, Math., French).
Robertson, Frederick Gordon (English, Latin, Math., Greek).
Robertson, Joseph Gold (Math., German).
Sharp, Alfred Cecil (English, Latin, Math., Greek).
Sharp, John (Latin, Math.).
Sinclair, James David Speed (Math., French).
Smellie, William (English, Latin, Math., French).
Smith, James Anstruther (French).
Smith, John Arthur (English, Latin, Math., French).
Speirs, Alexander (Math.).

Stevenson, John (English, Latin, Math., French).
Stevenson, William (English, Latin, Math., French).
Struthers, John Anderson (English, Latin, Math., French).
Telfer, Walter (Math., French).
Thomson, John Archibald (Math., French).
Turnbull, Martin (Math., French).
Ward, Marcelline (English, Math.).
Watson, William Barrie (Math., French).
Weidner, Max John Godfrey (German).
Weir, John (French).
Wilson, George (English).
Wylie, James Aitken (English, French).
Young, Hugh (Math.).

*April*, 1902.

Adamson, Wallace (Latin, Greek).
Allison, William Walter (English, Greek).
Anderson, David (Math.).
Atkinson, John (Latin).
Beattie, James Murray M'Culloch (English).
Blair, Robert (Latin).
Blakely, John (Math.).
Brash, Charles (Latin, French).
Brown, Agnes Stevenson (Math.).
Brown, Robert (English, French).
Buchan, Martha Maclean (Latin, Math.).
Buchanan, David Young (English, Math.).
Cairncross, James (Latin).
Calder, James (English, Latin, Math.).
Campbell, Hugh Cameron (English).
Campbell, John Archie (French).
Cassidy, Matthew Ignatius Thornton (Latin, Math.).
Clyde, Isaac Henry (English).
Cochrane, John (Greek).
Couper, Alexander Johnston (English, Latin, Math., Greek).
Cousens, Gordon Bryce Seymour (English).
Cross, William (Math.).
Davie, Neilson (Latin).
D'Evelynes, Duncan (Spanish).
Dykes, George (Math.).
Eadie, Alexander Wylie (Latin, Math.).
Fairley, Archibald (Latin, French).
Fairley, David (Math., German).
Figdor, Philip (English, French).
Fleming, Matthew Hamilton (French).
Foster, Christina Faichney (Latin, Math.).
Goldie, Andrew (Latin).
Gourlay, Alexander Thomas Arthur (English, Latin, Math., French).
Granger, Henry Maxwell (Latin, French).
Grant, Thomas Purdie (Latin, Greek).
Gray, James Dow (English, Latin, Math., French).
Harkin, Michael (Latin).
Harvey, Claude Percival (English, Latin, Math., Greek).
Hay, Euphemia Adamson (French).
Hogg, Archibald (German).

Hutton, Andrew James (French).
Inglis, William Smith (Math.).
Johnston, Alexander Cullen (French).
Kennedy, Alexander Mills (Math.).
Leckie, Arthur James Bruce (English, Latin, Math., French).
Logan, Martin William (Math.).
Lornie, Peter Christian (English, Latin, Math., German).
M'Arthur, John (English, Math.).
MacBain, Archibald Cowan (Math., French).
M'Call, John (French).
M'Callum, Hugh (Latin).
Macdonald, Alexander Tulloh Inglis (Latin).
M'Donald, James (Latin, Math., French).
Mackay, Joseph Bogue (Latin, French).
Mackay, Robert Sinclair (Spanish).
M'Kendrick, William (French).
Mackichan, Frank William (Math.).
M'Knight, James Chalmers (English).
M'Lachlan, Mr. Allison David (Latin, French).
Maclachlan, Donald Cameron (Latin, French).
M'Lelland, William Edward (English, Math.).
Macleod, John Muat (French).
M'Millan, James Anthony (Latin).
Macpherson, Allan (Latin, Math., Greek).
Mann, John Kennedy (Math.).
Marshall, Mr. Isa Carswell (English, Latin, Math.).
Martin, Francis William (Math.).
Matthews, Horatio (English, Latin, Math., French).
Miller, John Wilson (English, Latin, Math., French).
Morton, Hugh (Latin, Math., Greek).
Muir, Robert Charles (English, Latin, Math., French).
Munro, Archibald Campbell (English, Latin, Math., Greek).
Naismith, Andrew (Math.).
Papiermeister, Bernhard (Latin, Math.).
Papiermeister, Isaac (Latin).
Paterson, Hugh (French).
Purdie, David (English, Latin, Math., French).
Renton, Donald (Latin).
Robertson, John (Greek).
Robertson, Joseph Gold (Latin).
Robertson, Robert Charles (Greek).
Rodger, John Lyle (Math.).
Ross, Roderick (English).
Sexton, Florence Elizabeth (English, French).
Shand, James (English, Latin, Math., French).
Shankland, Alexander Grant (English, Latin, Math., French).
Sim, James Brown (French).
Smith, James Anstruther (Latin, French).
Speirs, Alexander (English, Latin, Math.).
Stenhouse, James Alexander (Latin, Math.).
Stevenson, Campbell Kay (Latin).
Stewart, Jeanie Hinshaw (English, Latin, French).
Stewart, Matthew John (Latin, Math.).
Telfer, Walter (English).
Thomson, Duncan M'Nicoll (English).
Thomson, Hugh Johnstone (Latin, Math., Greek).

Thomson, John Archibald (Latin).
Walker, John Morris (Latin, Math.).
Walker, Lindsay (French).
Wallington, Rupert Fabian (Math.).
Ward, Marcelline (French).
Watson, James Watson (Latin, Math.).
Watson, William Barrie (Latin).
Watt, Thomas Charles Dalrymple (Latin).
Weir, John (Latin, French).
Whittingham, William Crowley (Math.).
Williamson, Charles Percival (English, Math.).
Wilson, David M'Gruther (French).
Wilson, George (Math., French).
Wilson, John Alexander (English, Latin, Math., Greek).
Wilson, William Long (Math.).
Woods, William Patrick (English).
Worley, Annie Stein (English).
Wright, Jeanie Bell (English).
Young, John (Math., French).

## BURSARY EXAMINATION.

*October*, 1901.

The figure (2) denotes students of the second year.

The following are the first fifty-two names in the order of merit, viz. :—

1. Thomas D. K. Murray (2), High School, Glasgow.
2. James Ballantyne, Grammar School, Lanark.
3. Thomas M. MacRobert, Royal Academy, Irvine.
4. Albert F. L. Brayne, Royal Academy, Irvine.
5. Charles G. G. Helme, Grammar School, Paisley.
6. John R. Brown, High School, Glasgow.
7. George D. C. Stokes, Whitehill Public School, Glasgow.
8. Edith Urquhart, Hillhead High School, Glasgow.
9. Hugh Smith, Kilmarnock Academy.
10. Robert Browning, Whitehill Public School, Glasgow.
11. Gilbert W. Elliott, Hutcheson's Grammar School, Glasgow.
12. James K. Dunlop, Kilmarnock Academy.
13. Alexander Hutchison, High School, Glasgow.
14. Helen Muir, Girls' High School, Garnethill, Glasgow.
15. John J. Dempster, Hamilton Academy.
16. Thomas Beaumont, Grammar School, Lanark.
17. David Arthur, Airdrie Academy.
18. John F. Tinto, Allan Glen's School, Glasgow.
19. Neil Conley, Grammar School, Campbeltown.
20. William K. White, Ayr Academy.
21. Robert H. Napier, Morrison's Academy, Crieff.
22. William D. Macgill, Royal Academy, Irvine.
23. George Campbell (I.), Hutchesons' Grammar School, Glasgow.
24. Gilbert P. Hogg, High School, Glasgow.
25. John M. Miller, Pupil Teacher's Institute, Glasgow.
26. Mary V. Hunter (2), Miss Watson's School, Woodside Crescent, Glasgow.
27. Mary S. M'Kenzie, High School, Stirling.
28. James Barclay, Spier's School, Beith.
29. Henry Lambie, Grammar School, Paisley.
30. Arthur Turnbull, Glasgow Academy.

31. Elsie, F. Macdonald, Girls' High School, Garnethill, Glasgow.
32. Flora Ritchie, Hillhead High School, Glasgow.
33. James R. Mitchell, Hutchesons' Grammar School, Glasgow.
34. Walter Hubbard, High School, Glasgow.
35. Frederick G. Cromar (2), Hutchesons' Grammar School, Glasgow.
36. Robert Dewar (2), Royal Academy, Irvine.
37. Grace Macdougall, High School, Oban.
38. William Scott, Pupil Teachers' Institute, Glasgow.
39. Robert D. Watt (2), Kilmarnock Academy.
40. Mary C. Biggar (2), Hutchesons' Girls' School, Glasgow.
41. James Dunlop, High School, Coatbridge.
42. Alexander R. Mackenzie (2), Glasgow and West of Scotland Technical College.
43. William M. Fulton, Pupil Teachers' Institute, Glasgow.
44. Walter M. M'Culloch, Grammar School, Campbeltown.
45. Aaron Cantor, Hutchesons' Grammar School.
46. Tennant Sloan, Glasgow Academy.
47. George M. Fraser, Grammar School, Paisley.
48. Renwick Leitch, Rothesay Academy.
49. Joseph Cupples (2), Airdrie Academy, and Free Church Training College, Glasgow.
50. Campbell L. Miller, Rothesay Academy.
51. John C. Watson, John Neilson Institution, Paisley.
52. Alexander Lawrance, Burgh Academy, Dumbarton.

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## *UNIVERSITY PRIZES.*

### I.—FOR ESSAYS.

The GARTMORE GOLD MEDAL, for the best Essay on "The Advantages and Disadvantages of Hereditary Monarchy."

William MacDougall, Paisley.

A COULTER PRIZE OF FIVE POUNDS, for the best Essay on "Joseph Addison considered as Essayist and Critic."

Mary Love, Glasgow.

A COULTER PRIZE OF FIVE POUNDS, for the best Translation into Latin of the following Passage in Macaulay's *History of England*, Vol. I., Chap. i., from the words, "*No English King has ever laid claim to the general legislative power*". . . down to "*as if no extraordinary event had interrupted the regular course of life.*"

Norman R. Logan, Arbroath.

The LIVINGSTONE GOLD MEDAL, for the best Essay on "The Influence of Livingstone's Work on the Abolition of Slavery."

John M. Pryde, M.A., Caldercruix, Airdrie.

The DOBBIE-SMITH GOLD MEDAL, for the best Essay on a Botanical Subject, accompanied by an illustrative series of Macroscopic and Microscopic Specimens.

Archibald Leitch, Rothesay.

The COBDEN PRIZE OF TWENTY POUNDS, and SILVER MEDAL, for an Essay on the "Taxation of Land Values."

Stanley Horsfall Turner, M.A., Idle, Bradford.

### II.—FOR EXAMINATIONS.

An ARNOTT PRIZE OF FIFTEEN POUNDS, for an Examination in General Physics, open to Students of the first and second years of their Medical Studies.

George Allison Allan, Glasgow.

An ARNOTT PRIZE OF TWENTY-FIVE POUNDS, for an Examination in Physiological Physics, open to Students of the third and fourth years of their Medical Studies.

Robert Thomson Leiper, Glasgow.

The FINDLATER SCHOLARSHIP PRIZE, VALUE THIRTY-EIGHT POUNDS, for Examination in the Subjects for the Degree of B.D.

John Muir, M.A., Glasgow.

The JAMIESON PRIZE, VALUE TEN POUNDS, for Examination in the Subjects for the Degree of B.D.

George Condie, M.A., Glasgow.

The MACFARLAN AND COOK TESTIMONIAL PRIZE OF TWENTY-ONE POUNDS, open to Theological Students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

William Fulton, M.A., B.Sc., Uddingston.

The GLADSTONE HISTORICAL PRIZE OF TWENTY-ONE POUNDS, for the best Examination in English History.

George Carstairs, M.A., Glasgow.

The GLADSTONE MEMORIAL PRIZE OF BOOKS TO THE VALUE OF FIVE POUNDS, open to those who have taken the Degree of M.A. with Honours, or who presented themselves in October, 1901, for Examination for the Degree of M.A. with Honours in Economic Science.

Stanley Horsfall Turner, M.A., Idle, Bradford.

The THOMAS LOGAN MEMORIAL MEDAL AND PRIZE OF TWELVE POUNDS, to the Graduate in Arts of the year (1901) with the highest number of marks in the Examinations for the Degree.

Dougald Black M'Quistan, M.A., with First-Class Honours in Mathematics and Natural Philosophy, and Second-Class Honours in Classics.

The BRUNTON MEMORIAL PRIZE OF TEN POUNDS, to the most distinguished Graduate in Medicine of the year (1901).

Alexander Dey Thompson, M.B., Ch.B.

## III.—FOR THESES.

BELLAHOUSTON GOLD MEDAL, for eminent merit in Thesis for M.D.

David Louis Cairns, M.D.

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## *CLASS PRIZES.*

## Faculty of Theology.

### DIVINITY.

PROFESSOR WILLIAM HASTIE, D.D.

SENIOR CLASS.

I. Students of the Third Year :—

1. { John Muir, M.A., Glasgow (Cleland and Rae-Wilson Gold Medal).
   { George Condie, M.A., Glasgow (Dickson Prize).

3. John Gillies, M.A., Beith.

Honourable Mention—David L. Blair, M.A., Kilwinning; Kenneth O. Macleod, M.A., Glasgow; Alexander Cross, M.A., Port of Monteith; James R. S. Wilson, M.A., Garelochhead.

Dowanhill Prizes for Elocution:—

1. George Condie, M.A., Glasgow.
2. Robert S. Masterton, M.A., Hamilton.

II. Students of the Second Year:—

1. Norman R. Mitchell, M.A., Beauly.
2. John T. Arnott, M.A., Kinloch, Blairgowrie.
   Matthew Babington, M.A., Kilwinning.
4. William A. Gillies, M.A., Sleat, Skye.
   Peter G. Smith, M.A., Stonehouse.

Honourable Mention—Brodie S. Gilfillan, M.A., Lochwinnoch.

#### JUNIOR CLASS.

1. George Muir, M.A., Dunoon.
2. Thomas Low, M.A., Peebles.
3. William W. Clark, Larkhall.
4. William N. Monteith, B.A., Glencairn.
5. Alexander S. Dunlop, M.A., Greenock.

Honourable Mention—Augustine W. S. Forbes, M.A., Glasgow; William Lindsay, M.A., Coatbridge; James G. Macdonald, M.A., Motherwell; Hector MacLean, M.A., Tiree.

## DIVINITY AND BIBLICAL CRITICISM.

### Professor William Stewart, D.D.

#### SENIOR DIVISION.

1. William Fulton, M.A., B.Sc., Uddingston (Cleland and Rae-Wilson Gold Medal).
2. John Muir, M.A., Glasgow.
3. George Condie, M.A., Glasgow.

Next in Order of Merit—David L. Blair, M.A., Kilwinning; Alexander T. Hill, Govan; John Gillies, M.A., Beith.

#### JUNIOR DIVISION.

1. John T. Arnott, M.A., Kinloch, Blairgowrie.
2. Brodie S. Gilfillan, M.A., Lochwinnoch.
3. Norman R. Mitchell, M.A., Beauly.

Next in Order of Merit—William M. Tait, M.A., Saltcoats; William A. Gillies, M.A., Sleat, Skye.

## HEBREW AND SEMITIC LANGUAGES.

### Professor James Robertson, D.D.

#### I. Senior Hebrew Class.

1. Norman R. Mitchell, M.A., Beauly (Cleland and Rae-Wilson Gold Medal).
2. Brodie S. Gilfillan, M.A., Lochwinnoch.
3. William A. Gillies, M.A., Sleat, Skye.
4. John T. Arnott, M.A., Kinloch, Blairgowrie.
5. William M. Tait, M.A., Saltcoats.
6. Donald M. Beaton, M.A., Glasgow.
   Peter G. Smith, M.A., Stonehouse.

Next in Order of Merit—James C. Muir, M.A., Glasgow; John Gilmour, M.A., Blackford; Matthew Babington, M.A., Kilwinning.

Special Prize for Written Exercises—John M. Pryde, M.A., Caldercruix, Airdrie.

### II. JUNIOR HEBREW CLASS.

1. George Muir, M.A., Dunoon.
2. James G. Macdonald, M.A., Motherwell.
3. { Alexander H. Harley, Hamilton.
   { Robert A. C. Macmillan, Ullapool.
4. William N. Monteith, B.A., Glencairn.
5. Eric J. Roberts, Upper Norwood.
6. James Baird, Stevenston.

### III. ARABIC CLASS.

Advanced—William Rollo, M.A., Fraserburgh.
Elementary—Brodie S. Gilfillan, M.A., Lochwinnoch.

### IV. SYRIAC CLASS.

Advanced—William Rollo, M.A., Fraserburgh.

Elementary—George Condie, M.A., Glasgow; William Fulton, M.A., B.Sc., Uddingston; Thomas Low, M.A., Peebles; John Muir, M.A., Glasgow.

*Summer Session*, 1901.

### PREPARATORY HEBREW.

PRIZES.

John M. M'Gauley. Eric J. Roberts.

## CHURCH HISTORY.

PROFESSOR JAMES COOPER, D.D.

### I. JUNIOR CLASS.

1. William Weir Clark, Larkhall.
2. Thomas Low, M.A., Peebles.
3. Hector MacLean, M.A., Tiree.
4. William N. Monteith, B.A., Glencairn.

Subsequent Order—Neil M'Lellan, Benbecula; James G. MacDonald, M.A., Motherwell; William Lindsay, M.A., Coatbridge; Augustine W. S. Forbes, M.A., Glasgow.

SPECIAL PRIZE (for Essay)—George Muir, M.A., Dunoon.

### II. STUDENTS OF SECOND YEAR.

SPECIAL PRIZE (for Essay)—William A. Gillies, M.A., Sleat, Skye.

### III. SENIOR CLASS.

1. John Muir, M.A., Glasgow (Cleland and Rae-Wilson Gold Medal).
2. William Fulton, M.A., B.Sc., Uddingston.
3. George Condie, M.A., Glasgow.
4. John Gillies, M.A., Beith.

Subsequent Order—Alexander Cross, M.A., Port of Monteith; David L. Blair, M.A., Kilwinning; James R. S. Wilson, M.A., Garelochhead; Alexander T. Hill, Govan.

# Faculty of Law.

## SCOTS LAW.

PROFESSOR ALEXANDER MOODY STUART, LL.D.

I. For Eminence in Class Examinations :—

1. *Douglas A. Bannatyne, B.A. (Robert Ross Prize).
2. *Henry L. Menzies.
3. *James Nesmith.
4. *Kyle Thomson, M.A.
5. *Roderick M. Nicol, M.A., *James A. Smart, Equal.
7. Digby S. Brown.
8. David M. Hutchison, M.A.
9. Hamilton Crawford, M.A., James H. Orr, B.A., Equal.
11. James Austin, M.A., John S. Chalmers, Equal.
13. David Higgins, John M'Fadzean, David M'Millan, Equal.
16. Alexander B. Mackay, M.A., Robert F. M'Math, Equal.
18. John W. M'Coll.,
19. David Hetherington.

The * denotes the Prizemen.

II. The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination in the Subjects of the Course were awarded to :—

1. James Nesmith.
2. Henry L. Menzies.
3. David Higgins.
4. Digby S. Brown, John S. Chalmers, John M'Fadzean, Equal.

The following Students distinguished themselves in this Examination, viz.:—

7. Roderick M. Nicol, M.A.
8. James A. Smart.
9. James Austin, M.A.

## CONVEYANCING.

PROFESSOR JAMES MOIR, LL.D.

Prizemen.

1. Alexander G. Kemp, Stirling (Robert Ross Prize).
2. James Craig Gatheral, Troon.
3. George D. Valentine, M.A., Girvan.
4. James Auld, Glasgow.

Eminently Distinguished.

5. Hugh R. Buchanan, M.A., Glasgow.
6. John Ford, Motherwell.
7. Robert Brown, Renton.
8. John S. Smith, Port-Glasgow.
9. John Macalister, Kintyre.
10. John Houston, Greenock.

11. William C. Cowan, Glasgow.
12. Andrew C. Baird, Kilmarnock.
13. George Wilkie, M.A., Leven.
14. John Mackay, Glasgow.
15. Thomas L. Robb, Cumnock.

Special Mention.

16. Donald Grant Hodge, M.A., Dumbarton.

Examination for Prizes given by the Faculty of Procurators in Glasgow.

Prizemen.

1. Alexander G. Kemp.
   George D. Valentine, M.A.
3. James Craig Gatheral.

Eminently Distinguished.

4. John Ford.
5. James Auld.
6. Hugh R. Buchanan, M.A.
   John Macalister.
8. John Houston.
9. John S. Smith.
10. George Wilkie, M.A.

## CIVIL (OR ROMAN) LAW.

LECTURER—JAMES M. IRVINE, M.A., B.Sc., LL.B., ADVOCATE.

1. *Cosmo A. Ralston.
2. *John Mair,
   *Archibald Stewart, Equal.
4. *Thomas G. Robertson.
5. James W. Buchan.
6. George B. Chalk,
   Ebenezer M. Macharg,
   James A. Wotherspoon, Equal.
9. Harry J. Phillips.
10. Archibald N. Main,
    Robert R. Ness, Equal.
12. George J. Spreull, M.A.
13. John C. Brechin.
14. John A. Findlay,
    James A. Neilson, Equal.
16. Hugh M'Dougall,
    Robert H. Macqueen, B.A., Equal.
17. John W. Stewart.
18. William E. Cameron,
    John C. George,
    James Kerr,
    James W. Millen, Equal.

The * denotes the Prizemen.

## PUBLIC INTERNATIONAL LAW.

LECTURER—WILLIAM GALBRAITH MILLER, M.A., LL.B., ADVOCATE.

Prize—William B. Berry, M.A., Glasgow.

## INTERNATIONAL PRIVATE LAW.

*Summer Session*, 1901.

LECTURER—WILLIAM GALBRAITH MILLER, M.A., LL.B., ADVOCATE.

First-Class Honours:—

1. Hugh R. Buchanan, M.A., Glasgow (Prizeman).
2. William B. Berry, M.A., Glasgow.

Second-Class Honours—James Austin, M.A., Glasgow.

## JURISPRUDENCE.

LECTURER—WILLIAM GALBRAITH MILLER, M.A., LL.B., ADVOCATE.

Prize—George D. Valentine, M.A., Girvan.

First-Class Honours—William B. Berry, M.A., Glasgow.

### CONSTITUTIONAL LAW AND HISTORY.

Lecturer—William S. M'Kechnie, LL.B., D.Phil.

Honours Class.

1. James B. Galbraith (Prizeman).
2. William Sutherland.
3. William MacDougall.

Ordinary Class.

1. John D. Johnston, M.A. (First Prize).
2. John Mair,
   Martin R. Murray, (Second Prize). Equal.
4. Theodore D. Lowe, M.A.
5. James W. Buchan.
6. Norman C. Anderson, M.A.
7. John Wishart.

### MERCANTILE LAW.

Lecturer—William Shaw.

Prizes.

1. John H. Barrie.
2. James D. Cowan.
3. Thomas Jackson,
   John Marr, Equal.

Highly Distinguished.

1. William M'Donald.
2. William A. Frame.
3. Richard Dougherty.
4. David Jeffrey.
5. Thomson Vass.
6. John Forrest.
7. David N. Mackay,
8. Sidney Lyle.

### FORENSIC MEDICINE.

Professor John Glaister, M.D., D.Ph.(Camb.), F.R.S.E.

Cosmo A. Ralston (Medallist).

First-Class Certificates.

Hamilton Crawford, M.A.
David B. Mungo.

## Faculty of Medicine.

### *MEDALS AND CERTIFICATES OF MERIT.*

### SURGERY.

Professor William Macewen, M.D., LL.D., F.R.S.

Macleod Gold Medal for 1900-1901—Alexander Dey Thompson, M.B., Ch.B.

Senior Division.

First-Class Certificates (in order of merit).

John Stevenson (Medallist).
John B. Stewart.
Robert J. Arthur.
Alex. A. MacFarlane.
John M. Reid.
William A. Milne,
John W. Smith, Equal.
Archibald Leitch.

Commended.

Thomas I. Wallace.
Thomas Richmond.
William W. Turner.

David Riddell,
Malcolm B. G. Sinnette, } Equal.

### Junior Division.

First-Class Certificates (in order of merit).

David Dickie (Medallist).
Ivy M‘Kenzie, M.A., B.Sc.,
James Wilson, } Equal.
Malcolm Hutton, M.A., B.Sc.

David G. Dykes,
Cunison C. Finlator,
Alex. Mathieson, M.A., B.Sc., } Equal.
Hugh C. Davies.
John W. Arthur.
Andrew R. Dow.

Commended.

John Hanson, M.A.,
William D. H. Stevenson, M.A., } Equal.
James C. Bringan,
James D. M‘Culloch,
Daniel F. Riddell, M.A., } Equal.

James Monie,
John B. Morton, } Equal.
Robert D. Kennedy.
Thomas W. Love,
Alexander S. M‘Millan, } Equal.

## OPERATIVE SURGERY.

Professor William Macewen, M.D., LL.D., F.R.S.

*Summer Session*, 1901.

First-Class Certificates.

1. Alexander D. Thompson.
2. William Archibald.
3. Donald Steel.
4. James Walker.

## CLINICAL SURGERY.

Professor William Macewen, M.D., LL.D., F.R.S.

### Senior Division.

First-Class Certificates (in order of merit).

John Muir, B.Sc. (Medallist).
George R. Jeffrey,
Thomas I. Wallace, } Equal.
Stanley E. Lewis.

David Riddell.
Robert Laurie,
John W. Smith, } Equal.
John W. Renton.

Commended.

Archibald Leitch.
Robert H. Campbell,
John Stevenson,
John A. Thom, } Equal.

William F. Kay,
Alexander M. M‘Millan, } Equal.

### Junior Division.

First-Class Certificates (in order of merit).

William G. Shand (Medallist).
Peter L. Sutherland.

Clinical Registrar—John Morison.

Commended—Cunison C. Finlator.

## CLINICAL SURGERY.

PROFESSOR SIR HECTOR C. CAMERON, M.D.

*Summer Session*, 1901.

Certificates of Merit.

SENIORS.

Robert Ramsey.
Alan H. Muir.
John W. Smith, Robert T. Wells, M.A., } Equal.

JUNIORS.

Robert B. Carslaw, M.A.

*Winter Session*, 1901-2.

SENIORS.

William N. West Watson (Medallist).

Certificates of Merit.

Ernest M. Watkins.
William Gilchrist.
Thomas S. Macaulay.
Charles Brown.
William R. Taylor.

JUNIORS.

George A. Allan (Medallist).

Certificates of Merit.

Charles G. Mackay.
Peter Maguire.
John S. Dunn, M.A.
William L. Walker, M.A.

## PRACTICE OF MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

SENIORS.

Gairdner Medal—William G. Rodger.

First-Class Certificates (in order of merit).

1. Alexander C. Banks.
2. Andrew M. Kerr.
3. John M. Reid.
4. Ernest D. Jackson.
5. Samuel C. Cowan.
6. Alexander A. MacFarlane.
7. Joseph White, M.A., B.Sc.
8. William W. George.
9. Alexander Maclean.

JUNIORS.

Medal—William A. Milne.

First-Class Certificates (in order of merit).

1. William G. Shand.
2. William D. H. Stevenson, M.A.
3. Alexander Macintyre.
4. John M. Kelly.
5. David Dickie.

## CLINICAL MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

*Summer Session*, 1901.

First-Class Certificates (in order of merit).

SENIORS.

1. Albert E. Wainwright.
2. { Joseph G. Tomkinson. John Paton.
3. Charles J. Ross, B.A.
4. { Samuel J. Moore. John S. Barr.

5. David B. Davidson.
6. George B. Eadie.
   Douglas W. Hunter.
7. Donald Steel.
   Jacob Mains.

JUNIORS.

1. William D. H. Stevenson, M.A.
2. John M. Kelly.
3. James R. S. Anderson.

*Winter Session*, 1901-2.

SENIORS.

Medal—William A. Milne.

First-Class Certificates (in order of merit).

1. Hugh W. Crawford.
2. Alexander Macintyre.
3. Malcolm B. G. Sinnette.
4. Dugald H. Macphail.
5. Alexander Maclean.
6. John A. Paton.
7. Joseph Walker, M.A.

JUNIORS.

Medal—Andrew B. Aitken.

First-Class Certificates (in order of merit).

1. Andrew W. Anderson.
   William Rankin, M.A.
2. William Templeton.
3. Malcolm Hutton, M.A., B.Sc.
4. Robert B. Carslaw, M.A., John Murdoch, Equal.

## CLINICAL MEDICINE.

PROFESSOR SAMSON GEMMELL, M.D.

*Summer Session*, 1901.

First-Class Certificates (in order of merit).

William Archibald.
Gregor H. G. Davie.
John Anderson.
Samuel J. Cameron.
Daniel L. Carmichael.
George S. Wallace.

Commended.

Thomas Anderson.
Matthew Hunter.
John A. Garden.
James Walker.
Patrick T. Cairns.
Andrew T. Ross.

*Winter Session*, 1901-2.

SENIOR DIVISION.

William G. Rodger (Medallist).

First-Class Certificates (in order of merit).

John Guthrie.
George Ferguson.
Alexander G. Banks.
John B. D. Hunter.
John C. M'Kenzie.
John M. Reid.
Ivy M'Kenzie, M.A., B.Sc.

JUNIOR DIVISION.

John B. Stevenson (Medallist).

First-Class Certificates (in order of merit).

John Hanson, M.A.
William Stewart.

## MIDWIFERY.

PROFESSOR MURDOCH CAMERON, M.D.

Medallist—John M. Reid.

First-Class Certificates (alphabetically arranged).

Alexander G. Banks.
Samuel C. Cowan.
Ernest D. Jackson.
Andrew A. M'Whan.
Richard Makins.
Alexander Matheson, M.A., B.Sc.
William A. Milne.
George Richmond.

Second-Class Certificates (alphabetically arranged).

Hugh W. Crawford.
Andrew R. Dow.
David G. Dykes.
Cunison C. Finlator.
Robert H. Manson.
James S. Nicolson.
James C. Pairman, M.A.
Thomas Richmond.
Alexander B. Watt.
Joseph White, M.A., B.Sc.

## DISEASES OF WOMEN.

### Professor Murdoch Cameron, M.D.

*Summer Session*, 1901.

Medal.

Samuel J. Cameron.[1]
William M. Brown.

First-class Certificates (alphabetically arranged).

Thomas Anderson.
William M. Brown.
Samuel J. Cameron.
Robert D. Campbell.
Samuel J. Moore.
Robert Ramsey.
Thomas R. Rodger.
Donald Steel.

Second-class Certificates (alphabetically arranged).

George F. Buchan.
Reginald N. Dunlop.
George Ferguson.
James M'Pherson, M.A.
John Paton.
Robert W. Valentine.
James Walker.
James Wilson.

## INSANITY.

### Lecturer—David Yellowlees, M.D., LL.D.

*Summer Session*, 1901.

1. Mackintosh Bursary—Ethel M. Lochhead.

First-class Certificates.

2. Gertrude D. Bostock, B.Sc.
3. John W. Smith.
4. Ivy M'Kenzie, M.A., B.Sc.
5. Alexander G. Banks.

Second-class Certificates.

6. Jane Campbell.
7. Archibald Leitch.

## DISEASES OF THE EAR.

### Lecturer—Thomas Barr, M.D.

*Summer Session*, 1901.

Prizes.

Thomas I. Wallace.
John M. Reid.

First-class Certificates.

Thomas W. Love.
Alexander Macintyre.
William A. Milne.
John W. Smith.

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[1] Non-competitor.

*Winter Session*, 1901-2.

Prizes.

Robert Laurie.

Alexander Maclean.

First-class Certificates.

Hugh W. Crawford.

Campbell Ross.

## DISEASES OF THE THROAT AND NOSE.

Lecturer—James Walker Downie, M.B.

*Summer Session*, 1901.

Prize—Joseph White, M.A., B.Sc.

First-class Certificates.

Joseph White, M.A., B.Sc.
James S. Nicolson.
Alexander Macintyre.
George R. Jeffrey.
Daniel D. M'Dougall, M.A.
Alexander G. Banks.

Second-class Certificates.

James Russell.
Andrew M. Kerr.
Dugald H. M'Phail.

*Winter Session*, 1901-2.

Prize—John M. Reid.

First-class Certificates.

John M. Reid.
Thomas I. Wallace.
Samuel C. Cowan.
John W. Smith.

Second-class Certificates.

David Riddell.
John Stevenson.
William W. George.

## PATHOLOGY.

Professor Robert Muir, M.A., M.D.

Medallist—William D. H. Stevenson, M.A.

First-class Certificates (in order of merit).

William D. H. Stevenson, M.A.
William G. Shand, } Equal.
Peter L. Sutherland, }
Malcolm Hutton, M.A., B.Sc.
David Dickie.
Alexander Matheson, M.A., B.Sc., } Equal.
William Rankin, M.A., }
Alexander S. M'Millan.
Spencer Mort, } Equal.
James Wilson, }
James C. Pairman, M.A.

Carl H. Browning obtained a First-class Certificate in two Examinations.

Second-class Certificates (in order of merit).

Leslie C. B. Head, }
David G. Dykes, } Equal.
James Forsyth, }
Daniel F. Riddell, M.A., }
John W. Arthur.
Andrew Connal, }
John B. Stevenson, } Equal.
Joseph Walker, M.A., }
Cunison C. Finlator, } Equal.
John M. Kelly, }
James Monie, } Equal.
Arthur W. Sutherland, M.A., }
James Eadie, }
John B. Morton, } Equal.
John M. Smith, }
William Stewart, } Equal.
William N. W. Watson, }

## PRACTICAL PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

*Summer Session*, 1901.

Medallist—William D. H. Stevenson, M.A.

First-class Certificates (in order of merit).

William D. H. Stevenson, M.A.
Robert T. Leiper.
Malcolm Hutton, M.A.
Carl H. Browning.
Spencer Mort.
Alexander Matheson, M.A., B.Sc.
John Hanson, M.A.
William Rankin, M.A., } Equal.
Peter L. Sutherland, } Equal.
William Stewart.

Second-class Certificates (in order of merit).

John B. Stevenson, } Equal.
James Wilson, } Equal.
John M. Kelly.
James C. Pairman, M.A.
William N. W. Watson.
William G. Shand.
John M. Smith, } Equal.
Arthur W. Sutherland, M.A., } Equal.
Robert T. Wells, M.A., } Equal.
Alexander Blair, } Equal.
Alexander S. M'Millan, } Equal.
James R. M'Vail.

## MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

*Summer Session*, 1901.

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

Medallist—William G. Shand.

First-class Certificates (in order of merit).

Alexander S. M'Millan.
John Hanson, M.A.
Samuel C. Cowan.
John B. Morton, } Equal.
Peter L. Sutherland, } Equal.

Second-class Certificates (in order of merit).

Spencer Mort, } Equal.
John Young (Mount Vernon), } Equal.
John M. Kelly, } Equal.
Alexander A. MacFarlane, } Equal.
David Dickie, } Equal.
William Stewart, } Equal.
Daniel F. Riddell, M.A.
James Glover, } Equal.
Malcolm Hutton, M.A., } Equal.
Alexander Matheson, M.A., B.Sc., } Equal.
James D. M'Culloch, } Equal.
Alexander H. Napier, } Equal.

## ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S

### SENIOR CLASS.

Medals.

Robert B. Carslaw, M.A., } Equal.
Hugh H. Fulton, } Equal.

First-class Certificate—James W. Thomson.

Second-class Certificates (in order of merit).

John Graham.
James A. Cowie, B.A., B.Sc., } Equal.
George G. Smith,
Alexander S. M. Macgregor.
Andrew B. Aitken.,
John S. Dunn, M.A., } Equal.
James Porter,
David J. M'Leish, M.A.
William Grier,
Thomas S. Macaulay, } Equal.
Berkeley H. Robertson, M.A.,
William B. M. Martin.
Peter Carrick, M.A.,
David L. Graham, } Equal.
Robert Macfarlane,

Junior Class.

First-class Certificate—James H. Baird, B.A.

Second-class Certificates.

Alexander C. Russell.
Joseph R. Sutherland.

## EMBRYOLOGY.

*Summer Session*, 1901.

Lecturer—James F. Gemmill, M.A., M.D.

Prize—David J. M'Leish, M.A.

First-Class Certificates (in order of merit).

George M. Gray.
Hugh H. Fulton.

Second-Class Certificates (in alphabetical order).

John Graham.
Duncan Macfadyen.
James Porter.
William Templeton.

## PHYSIOLOGY.

Professor John Gray M'Kendrick, M.D., LL.D., F.R.S.

SYSTEMATIC.

John Hunter Medal and First Class Certificate—Robert B. Carslaw, M.A.

First-Class Certificates (in order of merit).

Thomas Barbour.
Harry S. Hutchison, } Equal.
Henry S. Ranken,
Joseph R. Sutherland.
John S. Dunn, M.A.
James A. Cowie, B.A., B.Sc., } Equal.
James Hunter,
James H. Baird, B.A., } Equal.
John C. Russell, M.A.,
Thomas Thom, } Equal.
James K. Welsh,

Second-Class Certificates (in order of merit).

David G. Hunter, M.A.
Thomas T. Rankin, } Equal.
George A. Allan,
Peter Maguire, } Equal.
John D. M'Callum, M.A.,
William Grier.
William B. Jack, } Equal.
Charles G. Mackay,
James M. Renton,
Robert W. Dale, M.A., } Equal.
Frank A. Murray,
Alexander C. Russell,
Harry P. Fairlie,
James Harvie, } Equal.
George Young,

## PRACTICAL PHYSIOLOGY.

Professor John Gray M'Kendrick, M.D., LL.D., F.R.S.

*Summer Session*, 1901.

John Hunter Medal and First-Class Certificate—John S. Dunn.

First-Class Certificates (in order of merit).

Andrew M. Pollock.
Robert B. Carslaw, M.A.
James W. Thomson.
Andrew B. Aitken.
Hugh H. Fulton.
John Moffat.

Second-Class Certificates (in order of merit).

William Templeton,
Alexander S. M. Macgregor, } Equal.
Andrew W. Anderson,
Andrew Meek.
David J. M'Leish, M.A.
William Rolland.
Thomas Orr,
Morrison W. Smith, } Equal.
Charles G. Mackay.
Robert D. Bell, M.A.,
William B. M. Martin, } Equal.
Robert Macfarlane,

## ADVANCED PRACTICAL PHYSIOLOGY.

*Winter Session*, 1901-2.

John Hunter Medal and First-Class Certificate—Carl H. Browning.

First-Class Certificates (in order of merit).

William B. M. Martin.
George G. Smith.
Alexander S. M. Macgregor,
Andrew M. Pollock, } Equal.
John Graham.
David Blackley.

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RALPH STOCKMAN, M.D.

Medallist—David Blackley.

First-Class Certificates (in order of merit).

Andrew B. Aitken.
Robert M. Wilson.
Forrest Brechin.
George Y. Caldwell.

Second-Class Certificates (in order of merit).

Charles M. Drew.
Arthur Innes.
Andrew Meek.
John Moffatt.
Charles Brown.
William Templeton.
Morrison W. Smith.
Duncan Macfadyen.
Andrew W. Anderson.
William S. Carter.
Charles G. Mackay.
William B. M. Martin.
Archibald C. Amy.
James A. Cowie, B.A., B.Sc.
Robert C. M'Guire.
James Marshall.
John Murdoch.
Alexander S. M. Macgregor.
William M. Rae.
Allan R. Barrowman.

## PRACTICAL PHARMACY.

PROFESSOR RALPH STOCKMAN, M.D.

*Summer Session*, 1901.

Second-Class Certificates (in order of merit).

William L. Walker, M.A.
Andrew B. Aitken.
David Blackley.
Donald J. G. Grant.
Alexander Jamieson.
William B. M. Martin.

## BOTANY.

Professor F. O. Bower, Sc.D., F.R.S.

*Summer Session*, 1901.

Medal—James H. Baird.

First-Class Certificate—Joseph R. Sutherland.

Second-Class Certificates.

William Grier.
Peter Mitchell, M.A.
William B. Jack.
George A. Allan.
James A. Cowie, B.A., B.Sc.
Thomas M'Cririck, M.A.
Peter Maguire.

### Practical Class.

*Summer Session*, 1901.

Medal—Alexander Graham.

First-Class Certificates.

Peter Maguire
Joseph R. Sutherland.

Second-Class Certificates.

George A. Allan,
William H. Manson, } Equal.
Norman H. W. Maclaren.

Herbarium Prize and Second-Class Certificate, with Special Commendation of Excellence of Specimens.

Thomas M'Cririck, M.A.

Mr. M'Cririck's Herbarium contained 471 specimens, correctly named.

## ZOOLOGY.

Professor John Young, M.D.

William Hunter Medal and First-Class Certificate—George Hutcheon, M.A.

First-Class Certificate—Peter Mitchell, M.A.

Second-Class Certificates.

John Anderson, M.A.
John Miller.
Thomas M'Cririck, M.A.

## PRACTICAL ZOOLOGY.

*Summer Session*, 1901.

Professor John Young, M.D.

William Hunter Medal and First-Class Certificate—John S. Dunn.

*Winter Session*, 1901-2.

Second-Class Certificates.

George Hutcheon, M.A.
Alexander Graham.

## GEOLOGY.

Professor John Young, M.D., and Alex. L. du Toit.

William Hunter Medal and First-Class Certificate—John Struthers, M.A.

First-Class Certificates.

William Stratton, M.A.
Alfred W. Stewart.

Second-Class Certificates.

Henry O. Weller.
David K. Chalmers, M.A.

George Hutcheon, M.A.,
Robert Ure, } Equal.
John Porter.

## PHYSICS.

Professor Andrew Gray, M.A., LL.D., F.R.S.

*Summer Session*, 1901.

Medal—George A. Allan.

First-Class Certificates (in order of merit).

John C. Middleton.
James H. Baird,
Arthur Robertson, } Equal.
William L. Kirkwood.
Alexander C. Russell.

John Miller (Beith),
Thomas B. Smith, } Equal.
Henry J. Milligan.
Joseph R. Sutherland.

Second-Class Certificates (in order of merit).

Thomas H. Forrest,
William Grier,
William B. Jack, } Equal.
James Fairley.
Thomas T. Rankin.
Alexander Hunter.

James W. Georgeson,
Hugh MacNaught,
John Reid, } Equal.
Robert W. Mitchell,
Thomas Thom, } Equal.
Kenneth Morrison,
John Macintyre, } Equal.
John Miller (Greenock).

## PRACTICAL CHEMISTRY.

*Summer Session*, 1901.

Professor John Ferguson, M.A., LL.D., F.S.A.

Joseph Black Medal and First-Class Certificate—George A. Allan.

Second-Class Certificates.

Peter Maguire.
William Rolland.
John L. Stewart, M.A.

## CHEMISTRY.

Professor John Ferguson, M.A., LL.D., F.S.A.

Joseph Black Medal and George Roger Muirhead Prize—Robert Irvine, M.A.

First-Class Certificates.

John Campbell.
Alexander Hutchison.
Robert Irvine, M.A.
John Miller (Beith).
Peter Mitchell, M.A.
Richard D. Robertson.

Second-Class Certificates.

John S. Clark.
John Docherty.
Robert Donald.
John J. Gemmell, M.A.
Sinclair Grant.
Andrew Henderson, M.A.
Thomas D. MacKenzie.
David M'Millan.
William P. M'Pherson.
Dougald B. M'Quistan, M.A.
Hugo G. Robertson.
John Stevenson.
William L. Thompson.
Robert D. Watt.
Samuel Wilson, M.A.

# Faculty of Science.

## ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.SC., M.I.C.E.

### CLASS I.

1. Neil J. Maclean, Glasgow.
2. Bernard P. Haigh, Glasgow.

Next in order of Merit.

James R. Young, Glasgow.
John Martin, Stonehaven.

### CLASS III.

1. Neil J. Maclean, Glasgow.

2 and 3. James M. Clark, M.A., B.Sc., Glasgow,
James Muirhead, Glasgow, Equal.

Next in order of Merit.

John Martin, Stonehaven.
James G. Gray, Glasgow.

### CLASS IV.

1 and 2. Thomas B. Morley, Glasgow,
James M. Clark, M.A.. B.Sc., Glasgow, Equal.

Next in order of Merit.

John S. Mitchell, Uddingston.
Wm. C. Houston, Glasgow.
James Muirhead, Glasgow.

### DRAWING—SENIOR.

1. Neil J. Maclean, Glasgow.
2. Duncan R. MacLachlan, Glasgow.

Next in order of Merit.

Thomas B. Morley, Glasgow.
Thomas M. Hunter, M.A., Glasgow.

### DRAWING—JUNIOR.

1. Bernard P. Haigh, Glasgow.
2. Henry J. M. Cousens, Glasgow.
3. Duncan J. Kerr, Glasgow.

Next in order of Merit.

Hubert N. Beilby, Glasgow.
John Martin, Stonehaven.
John Whitehead, Paisley.
Andrew V. Wilson, Motherwell.

### LABORATORY—SENIOR.

1. Thomas B. Morley, Glasgow.
2. Wm. C. Houston, Glasgow.

### LABORATORY—JUNIOR.

1 and 2. James E. Steele, Glasgow,
Henry O. Weller, London, Equal.

### ELECTRICAL ENGINEERING.

1. James Muirhead, Glasgow.

Next in order of Merit.

John Martin, Stonehaven.
Thomas B. Morley, Glasgow.

### ELECTRICAL ENGINEERING LABORATORY.

1. John Fairley, Glasgow.

Next in order of Merit.
Duncan R. MacLachlan, Glasgow.

George Harvey Prizes.

Thomas B. Morley, Glasgow.
John S. Mitchell, Uddingston.

Walker Prizes.

1. Thomas B. Morley, Glasgow.
2. James M. Clark, M.A., B.Sc., Glasgow.

3 and 4. { John S. Mitchell, Uddingston, } Equal.
{ James Muirhead, Glasgow, }

Recommended for Muir Bursaries.

Neil J. Maclean, Glasgow.
Bernard P. Haigh, Glasgow.

### NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

Professor J. H. Biles, Mem. Counc. I.N.A., M.I.C.E., LL.D.

Kirk Memorial Prize—William F. Robertson, Glasgow.
Senior Class—Eugène M. J. Gillon, Brussels.
Junior Class—James B. Dickie, Glasgow.
Drawing Class—John A. G. Tainsh, Glasgow.

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## Faculty of Arts.

### HISTORY.

Professor Dudley J. Medley, M.A.

Honours Class.

Prize—James B. Galbraith.

Ordinary Class.

Prizes.

1. John H. B. Lochhead.
2. Margaret T. Robertson.
3. Elias Henry Jones.
4. Robert Burns.
5. Donald J. Clark.
6. Norman R. Logan.
7. Louis M. Forrest.
8. Hugh Kirkhope.

Certificates of Merit.

1. Charles Cullen.
2. Alexander M. M'Iver.
3. Elizabeth L. Carslaw.
4. William Ferguson.
5. Elsie R. Stevenson.
6. Jane R. Brown.
7. Duncan Blair.
8. Mary G. Sinclair.

### MATHEMATICS.

Professor William Jack, M.A., LL.D.

Advanced Honours.

1. Robert A. Houstoun (Cunninghame Gold Medal).

2. { Robert Hamilton, } (*Proxime accesserunt*).
{ James H. Lindsay, }

4. Archibald Lang.
5. Robert Jack.

### Intermediate Honours (A.).

1. Andrew Henderson, M.A.
2. { James Gray.
   Neil J. Maclean.

Extra Prize—Walter A. Rawson, M.A.

### Intermediate Honours (B.).

1. [1]William Miller.
2. Robert Harvie.
3. George D. C. Stokes.
4. Margaret Macintyre.
5. James M. Frew.

### Ordinary Class.

1. [2]Thomas M. MacRobert.
2. Alexander Hutchison.
3. Albert F. L. Brayne.
4. { Thomas D. K. Murray.
   William Brown.
6. Robert N. Cross.
7. { Grace Macdougall.
   Gilbert W. Elliott.
9. James H. Cockburn.
10. Duncan J. Kerr.
11. Theodore D. Dunn.

*Summer Session*, 1901.

LECTURERS—HORATIO S. CARSLAW, M.A., D.SC., F.R.S.E., AND ROBERT J. T. BELL, M.A., B.SC.

Prizes.

1. Neil M'Arthur.
2. William Jamieson.

## NATURAL PHILOSOPHY.

PROFESSOR ANDREW GRAY, M.A., LL.D., F.R.S.

### Ordinary Class.

Prizes and First-Class Certificates (order of merit).

1. William Miller, Glasgow (Cleland Gold Medal).
2. John Miller, Beith.
3. { Alexander Hutchison, Glasgow, } Equal.
   Duncan J. Kerr, Glasgow, }
5. Duncan D. Hair, Paisley.
6. John Bell, Falkirk.
7. Alexander D. Ross, Glasgow.
8. Robert Hamilton, Cleland.
9. George D. C. Stokes, Mount Florida.

First-Class Certificates (alphabetical order).

Henry J. M. Cousens.
James M. Frew.
Bernard P. Haigh.
Robert Harvie.
Andrew Hutchison.
William Jamieson.
David M'Millan.
John C. Middleton.
Edward B. Rattray.
Robert Ure.
Alexander M. Watters.

### Higher Mathematical Class.

Division A.

1. John S. Mitchell, Uddingston.
2. Robert A. Houstoun, Glasgow.
3. Archibald Lang, Glasgow.

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[1] Mr. Miller also obtains the Muir Senior Bursary in Mathematics, subject to the conditions stated in the Calendar.

[2] Mr. MacRobert also obtains the Muir Junior Bursary in Mathematics, subject to the conditions stated in the Calendar.

First-Class Certificates (alphabetical order).

Samuel N. Forrest.
William L. Thompson.

Division B.

1. { John A. C. Bayne, Grangemouth,
James G. Gray, Glasgow, } Equal.

First-Class Certificate—William M. Gray.

### PHYSICAL LABORATORY.

1. { Henry J. M. Cousens, Glasgow.
Bernard P. Haigh, Glasgow. } Equal.
3. Ejnar Bondegaard, Denmark.

First-Class Certificates (alphabetical order).

Robert Cuthbertson.
Samuel N. Forrest.
Louis N. Gow, M.A.
Robert Irvine, M.A.
Tomochika Iwane.
Robert Jack.
John Miller.
William Miller.
John H. Stewart.

### ELECTRICITY—PURE AND APPLIED.

First-Class Certificates (order of merit).

1. James Gray, Glasgow.
2. William C. Houston, Glasgow.

## LOGIC AND METAPHYSICS.

PROFESSOR ROBERT ADAMSON, M.A., LL.D. (died 5th February, 1902), and NORMAN D. SMITH, M.A.

Prizes.

1. Annie G. Philip (Buchanan Prize).
2. Robert N. Cross.
3. Robert M. Morison.
4. Alexander P. Crichton.
5. Jenny G. Hunter.
6. James E. Scott.
7. { William Paterson,
George Wright, } Equal.
9. { John R. Cameron,
Robert C. Thomson, } Equal.

First-Class Certificates of Merit.

Robert Archibald.
Andrew C. Baird.
Robert W. Barr.
Duncan Blair.
James W. Buchan.
Elizabeth L. Carslaw.
David A. Dick.
Jessie E. G. Grant.
George Grieve.
Jane M'Arthur.
Robert A. C. Macmillan.
Adam Patrick.
John W. Reed.
William Strachan.

## MORAL PHILOSOPHY.

PROFESSOR HENRY JONES, M.A., LL.D.

### HONOURS CLASS.

1. George Shann, M.A. (Edward Caird Medal and Mrs, John Caird's Prize of £3 3s.).
2. Sydney M. MacEwen (Mrs. Caird's Prize of £2 2s.).

### ORDINARY CLASS.

Prizes and First-Class Certificates of Merit for General Eminence in the Essays, Exercises, and Examinations of the Class.

1. Harold C. Rowse (Buchanan Prize).
2. Joseph Cupples.
3. John M. Richardson, M.A.
4. Janet Green.
5. George Grieve.
6. Duncan D. Hair.
7. George Aitken.
8. William H. Coats.
9. John W. Reed.
10. John Lewis.
11. { Edith Urquhart.
    George Wright. }

First-Class Certificates of Merit.

David R. Anderson.
Andrew C. Baird.
John Hair (Muirkirk).
Elizabeth C. Kerr.
John Macmillan.
Maggie M. Reid.
Jean S. Reith.
Allan M. Ritchie.
John W. Scott.

The Prize of Five Guineas given by Mrs. John Caird for Excellence in the Essays was awarded to

1. Harold C. Rowse.
2. Joseph Cupples.

## POLITICAL ECONOMY.

PROFESSOR WILLIAM SMART, M.A., LL.D., D.Phil.

The Alexander Smart Memorial Prize.

John Bain,
James Mackenzie, } Equal.

First Prize.

Frances M. M'Phun,
James M'Kenzie, } Equal.

Third Prize.

John Bain,
Robert Cunningham,
Allan M. Ritchie,
Harold C. Rowse, } Equal.

*Proxime accesserunt.*

Jane M'Arthur.
John M. M'Gauley.
Agatha R. Runciman.
John M'Neil.
Edward Porter.
John R. Spence, M.A.
Donald J. Clark.
Marjory O. Ketchen.

## EDUCATION.

LECTURER—JOHN ADAMS, M.A., B.SC.

Prizes.

1. Theodore D. Dunn.
2. Henry A. Kellow.
3. John Lapsley.
4. Mary M. Murray.
5. Margaret M. Bickett.
6. Thomas M. Watt.
7. Jane M. Davidson.
8. John Brown.
9. George Pennycook.
10. George Paterson.
11. Margaret Dallas.
12. Mary A. C. Skinner.

Essay Prizes.

William MacDougall, } Equal.
John M'Millan, }

First-Class Certificates.

Mabel B. Clark.
Robert Dewar.
William E. Findlay.
Williamina M. Kiddie.
Neil M'Arthur.
Robert Macfarlane.
John B. Orr.
Dugald F. Percy.
Helen G. Whitton.

## HUMANITY.

Professor George G. Ramsay, M.A., LL.D., Litt.D.

Prizes for General Excellence in the Work of the Session.

Private and Honours Class, 1 p.m.

Muirhead Prizes.

Books Read—Martial, *Extracts, I.-VI.*, Catullus, *I.*, Tacitus, *Dialogus and Annals, V., VI.*, Virgil, *Æneid, XI.*

1. Charles G. Nelson, Girvan (Girvan Burgh School).
2. William Manson, Cambuslang (Glasgow High School).
3. James E. Scott, Inverness (Blair Lodge).

Senior Class, 9 a.m.

The Cowan Gold Medal.

1. John R. Brown, Bellahouston (Glasgow High School).

Ordinary Prizes.

2. Gilbert W. Elliott, Langside (Hutchesons' School).
3. Charles G. G. Helme, Paisley (Paisley Grammar School).
4. Flora Ritchie, Glasgow (Hillhead Public School).
5. James Ballantyne, Carstairs (Lanark Grammar School).
6. Elsie F. Macdonald, Glasgow (Glasgow High School for Girls).
7. George Fletcher, Kirkintilloch (Lenzie Academy).
8. { Albert F. L. Brayne, Irvine (Irvine Academy).
   { William K. White, Ayr (Ayr Academy).

Senior Class, 8 a.m.

1. William D. White, Greenock (St. Andrews Square School).
2. David Arthur, Airdrie (Airdrie Academy).
3. William Scott, Glasgow (P. T. Institute).

Middle Class.

1. William Potter, Larkhall (Whitehill School).
2. Alexander K. G. Allison, Paisley (Neilson Institution).

II. Prizes for Latin Prose Composition (Senior and Honours).

SECTION I.

1. Matthew Stewart, Glasgow (High School).
2. John Gordon, Glasserton (Private).

SECTION II.

1. William B. Donald, Glasgow (High School).
2. Neil Conley, Campbeltown (Campbeltown Grammar School).

III. Vacation Exercises.

1. Latin Essay, open to Senior or Honours Class of 1900-1901.
John MacInnes, Saltcoats (Spiers School).

2. For Learning by Heart, Virgil, *Georgic I.* 1-258.
Alexander R. Mackenzie, Glasgow (George Watson's College).

### Latin Blackstone Examination.

Cowan Gold Medal.
James E. Scott, Inverness.

*Summer Session*, 1901.

Lecturer—William W. M'Kechnie, M.A.

Prize—Mary Love.

## GREEK.

Professor John S. Phillimore, M.A.

### Honours Class.

Prizes for Excellence in the Work of the Class.

1. William Manson.
2. Peter Marshall.

First-Class Certificates (in order of merit).

3. Elias H. Jones.
4. John Orr.
5. William H. Coats.
6. John Gordon.
7. William B. Donald.
8. Archibald A. Bowman.

Prize for Best in Prose—Matthew Stewart.

Prize for Best Weekly Translations—John Orr.

Prizes for Best Essays—
1. Archibald A. Bowman.
2. Elias H. Jones.

### Senior Class.

1. Jeffrey Gold Medal—John R. Brown.
2. Thomas Beaumont.
3. Gilbert W. Elliott.
4. Robert Sheridan.

First-Class Certificates (in order of merit).

5. Mary S. Mackenzie (Q.M.C.).
6. James M. Barclay.
7. Charles G. G. Helme.

Prizes for Written Examinations.—
Charles G. G. Helme.
Hugh Smith.

Prize for the Best Essay—James Ballantyne.

Prizes for Weekly Translations—
Thomas Beaumont.
John R. Brown.

Prizes for Prose in Division I.—
Mary S. Mackenzie (Q.M.C.).
John R. Brown.

Prizes for Prose in Division II.—
James K. Dunlop,
Charles G. G. Helme, } Equal.

### Middle Class.

1. Scott-Macfarlan Gold Medal—William Potter.
2. Gavin Lawson.

### Blackstone Examination.

Cowan Gold Medal—Norman R. Logan.

Sandford Scholarship—John MacInnes.

### ENGLISH LITERATURE.

PROFESSOR WALTER A. RALEIGH, M.A.

Prizes.

1. George S. Gordon (Buchanan Prize).
2. Kenneth Stewart.
3. John MacInnes.
4. Archibald A. Bowman.[1]
5. Hugh B. Guthrie.
6. James N. Devine. / Peter Marshall.
8. George Beaumont. / James H. Cockburn.
10. John M'Bryde. / John W. Scott.
12. William Clark. / Hugh M. Dunlop. / Thomas R. M'Murtrie, M.A.
15. Frederick R. H. Hutton. / Neil MacInnes.

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[1] James Macpherson (disqualified as a former prizeman) is bracketed equal with 4.

Highly Commended.

John Anderson, M.A.
William Ferguson.
Hugh Kirkhope.
Frank W. Saunders.
James H. Stevenson.
John A. G. Thomson.

The Early English Text Society's Prize has been awarded to Helen M. Armour.

### FRENCH LANGUAGE AND LITERATURE.

LECTURER—CHARLES MARTIN, M.A., O.A.

ORDINARY CLASS.

Prizes offered by the French Branch of the Franco-Scottish Association, and First-Class Certificates.

Duncan D. Hair, } Equal.
James M'Arthur, }

First-Class Certificates (in alphabetical order).

Arthur A. Cowan.
William W. Henderson.
John M'Millan.
James G. Watson.
William Wordie.

### GERMAN LANGUAGE AND LITERATURE.

LECTURER—G. P. THISTLEWAITE, B.A., Ph.D.

Prize—Arthur Craig.

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## WOMEN'S DEPARTMENT.

## Faculty of Medicine.

### SURGERY.

LECTURER—JAMES H. PRINGLE, M.B., F.R.C.S.

Medal—Isabel D. Mitchell.

First-Class Certificates.

Martha H. Scott, } Equal.
Kate Fraser, B.Sc., }

Second-Class Certificates.

Jessie G. Duncan.
Margaret H. Smart, } Equal.
Margaret Hardy, } Equal.
Anna P. Martin.
Annie M. Black.
Eliza J. Miller.

May C. Cameron.
Elizabeth T. Talbert.
Jane R. F. Gilmour.
Alice W. Maclean, } Equal.
Ethel L. Chapman, } Equal.
Janet G. Waddell, } Equal.

### PRACTICE OF MEDICINE.

Lecturer—John Lindsay Steven, M.D.

Medal—Katharine M. Chapman.

Second-Class Certificates.

Mary L. M'Neill.
Ethel J. M. Pryce.

### MIDWIFERY AND GYNÆCOLOGY.

Lecturers—Professor Murdoch Cameron, M.D., and John M. M. Kerr, M.B.

Medal—Gertrude D. Bostock, B.Sc.

First-Class Certificates.

Katharine M. Chapman.
Helen S. Baird, B.A.

Second-Class Certificates.

Anna P. Martin.
Eliza J. Miller.

### INSANITY.

(See under Men's Department.

### OPHTHALMOLOGY.

*Summer Session*, 1901.

Lecturer—A. Maitland Ramsay, M.D.

Prize—Isabel D. Mitchell.

First-Class Certificate—Jane Campbell.

Second-Class Certificate—Margaret H. Smart.

### DISEASES OF THE EAR.

*Summer Session*, 1901.

Lecturer—Thomas Barr, M.D.

Janet T. Miller.

### PATHOLOGY.

Lecturer—Charles Workman, M.D.

Medal—Isabel D. Mitchell.

### PRACTICAL PATHOLOGY.

*Summer Session*, 1901.

Lecturer—Charles Workman, M.D.

Medal—Gertrude D. Bostock, B.Sc.

Second-Class Certificates.

Anna P. Martin.
Isabel D. Mitchell.
Jessie M. Stewart.
Katharine M. Chapman.
Eliza J. Miller.

## MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

*Summer Session*, 1901.

PROFESSOR JOHN GLAISTER, M.D.

Medal—Isabel D. Mitchell.

First-Class Certificates.

Anna P. Martin,
Jessie G. Duncan, } Equal.

Second-Class Certificates.

Kate Fraser, B.Sc.
Mary L. M'Neill,
Jane R. F. Gilmour, } Equal.

## ANATOMY.

LECTURER—THOMAS H. BRYCE, M.A., M.D.

### SENIOR ANATOMY.

Second-Class Certificates.

Mary Spence.
Margaret W. Millar.

### JUNIOR ANATOMY.

Medal—Jeannie T. Clark.

First-Class Certificates.

Elizabeth M. M'Vail
Jessie D. Rankin, M.A.

## PHYSIOLOGY.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S.

Medal and First-Class Certificate.
Jessie D. Rankin, M.A.

Second-Class Certificates.

Elizabeth M. M'Vail.
Christian E. S. Smart.

## PRACTICAL PHYSIOLOGY.

*Summer Session*, 1901.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., WM. B. BRODIE, M.B., AND JOHN H. TEACHER, M.A., M.B.

Second-Class Certificates.

Mary T. Gallagher.
Roberta Campbell.

## PRACTICAL PHARMACY.

*Summer Session*, 1901.

LECTURER—WILLIAM MACLENNAN, M.B.

Medal—Roberta Campbell.

First-Class Certificate—Annie M. Yates.

## BOTANY.

LECTURER—WILLIAM H. LANG, D.Sc., M.B.

*Summer Session*, 1901.

SYSTEMATIC.

Medal—Margaret A. Kennedy.

Second-Class Certificates.

Vera D. Reis. Margaret Barbour.

PRACTICAL.

Medal—Margaret A. Kennedy.

Second-Class Certificates.

Dorothy Ackland. Margaret Barbour.

## ZOOLOGY.

PROFESSOR JOHN YOUNG, M.D., AND JAMES RANKIN, B.SC., M.B.

*Summer Session*, 1901.

SYSTEMATIC.

Second-Class Certificate—Elizabeth M. M'Vail.

## PHYSICS.

LECTURER—PROFESSOR JAMES BLYTH, M.A., F.R.S.E., LL.D.

Medal—Jeannie M. Andrew.

Second-Class Certificates.

Annie C. Bark. Annie R. Hird. Vera D. Reis.

## CHEMISTRY.

LECTURER—THOMAS GRAY, D.SC.

SYSTEMATIC.

Medal—Kathleen M. Nolan.

First-Class Certificates.

Agnes Picken. Margaret Barbour.

Second-Class Certificates.

Jeannie M. Andrew.
Vera D. Reis.
Maggie M. J. Sutherland.

PRACTICAL.

Second-Class Certificates.

Annie C. Bark. Annie R. Hird. Vera D. Reis.

LABORATORY.

First-Class Certificate—Margaret Barbour.

## Faculty of Arts.

## MATHEMATICS.

(See under Men's Department.)

### NATURAL PHILOSOPHY.

LECTURER—PROFESSOR JAMES BLYTH, M.A., F.R.S.E., LL.D.

First-Class Certificates.

Louise M. Forrest.
Dorothy Ackland.
Margaret C. R. M'Farlane.
Isabella Wilson.
Agnes D. Scorgie.
Mary M. Latta.
Marion Weir.

### LOGIC AND METAPHYSICS (AT THE UNIVERSITY).

(See under Men's Department.)

### LOGIC AND METAPHYSICS (AT QUEEN MARGARET COLLEGE).

LECTURER—NORMAN D. SMITH, M.A.

Prize—Margaret E. M'Kerrow.

First-Class Certificates.

Mary V. Hunter.
Janey A. Keddie.
Margaret C. Kettle.

### MORAL PHILOSOPHY (AT THE UNIVERSITY).

(See under Men's Department.)

### MORAL PHILOSOPHY (AT QUEEN MARGARET COLLEGE).

LECTURER—ROBERT A. DUFF, M.A.

First-Class Certificates.

Margaret L. Duncan.
Jannette R. B. Nelson.

### POLITICAL ECONOMY.

(See under Men's Department.)

### EDUCATION.

(See under Men's Department.)

### LATIN.

(See under Men's Department.)

### GREEK.

(See under Men's Department.)

### ENGLISH LANGUAGE AND LITERATURE.

LECTURER—ADOLPHUS A. JACK, M.A., L.L.M.

Prizes.

1. Alice A. L. Malcolm (Nichol Memorial Prize).
2. Janet R. Aird.
3. Frances S. Chambers.
4. Dorothy Ackland.
5. Mary Blackhall.

Prize for Best Essay—Catherine R. Macfarlane.

(See also under Men's Department.)

## FRENCH LANGUAGE AND LITERATURE.

Lecturer—Charles Martin, M.A., O.A.

### Honours Class.

Prizes offered by the French Branch of the Franco-Scottish Association.

1. { Catherine Bennie, M.A., / Mary C. Cameron, } Equal.
2. Maggie Chalmers.

First-Class Certificate—Margaret A. Scott.

### Ordinary Class.

Prize offered by the Minister of Public Instruction in France to the most deserving student of the French Classes.

1. Mary V. Hunter.

Prizes offered by the French Branch of the Franco-Scottish Association.

2. { Margaret C. Kettle, / Mary T. Moody Stuart, } Equal.
3. Elizabeth W. Scott.
4. Annie J. Arnott.
5. { Janet Green, / Agnes J. Paul, / Marion Weir, } Equal.
6. { Mary C. Biggar, / Mary M. M'Culloch, / Mary E. Thomson, } Equal.

First-Class Certificates.

Margaret R. Cowie.
Bessie Russell.
Mary A. C. Skinner.
Isabella M. Thompson.
Winifred Workman.

## GERMAN LANGUAGE AND LITERATURE.

Lecturer—G. P. Thistlewaite, B.A., Ph.D.

### Honours Class.

Prize—Mary C. Cameron.

### Ordinary Class.

Prize—Ida M. Gordon.

First-Class Certificates.

Mary C. Biggar.
Isabella M. Thompson.

## HISTORY.

(See under Men's Department.)

# *XII.—EXAMINATION QUESTIONS.*

## I. PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

### ENGLISH.

*March-April*, 1902.

FIRST PAPER—Two Hours.

(FIVE, *and not more than* FIVE, *questions are to be answered. Questions* 1, 2, *and* 6 *must be answered by all.*)

1. Write an essay, of from two to three pages long, on *one* of the following subjects :

(1) The Gordon Riots.
(2) The Humour and Pathos of Lamb's Essays.
(3) The Causes of International Antipathies.

2. Paraphrase :

*Quiet Work.*

One lesson, Nature, let me learn of thee,
One lesson which in every wind is blown,
One lesson of two duties kept at one
Though the loud world proclaim their enmity—

Of toil unsever'd from tranquillity !
Of labour, that in lasting fruit outgrows
Far noisier schemes, accomplish'd in repose,
Too great for haste, too high for rivalry !

Yes, while on earth a thousand discords ring,
Man's senseless uproar mingling with his toil,
Still do thy quiet ministers move on,

Their glorious tasks in silence perfecting ;
Still working, blaming still our vain turmoil,
Labourers that shall not fail, when man is gone.

3. Indicate the words of classical origin in the following passage, and re-write it in simpler language :

This universal discontent has been generally mentioned with great severity of censure, as unreasonable in itself, since of two, equally envious of each other, both cannot have the larger share of happiness, and as tending to darken life with unnecessary gloom, by withdrawing our minds from the contemplation and enjoyment of that happiness which our state affords, and fixing our attention upon foreign objects, which we only behold to depress ourselves, and increase our misery by injurious comparisons.

4. Explain and exemplify the terms *phrase*, *clause*, *finite verb*, *object*, *absolute construction*, *co-ordinate*, *subordinate*.

5. Re-write, so as to correct or improve, the following sentences, giving reasons for any changes you may make:

(*a*) A wretched woman, whom there is every reason to believe was insane, made a furious, but happily unsuccessful attempt on the King's life; and the King behaved with a courage which revolutionised all who saw his conduct or heard of it in his favour.

(*b*) I certainly love him more than any human being, and neither time or distance have had the least effect on my (in general) changeable disposition.

(*c*) Neither my habits nor constitution are improved by your customs or climate.

(*d*) Even when one has a thorough knowledge of a subject, he can seldom fall into the best way of communicating it without previous reflection.

6. Give a general analysis of the following sentence, and parse the words in italics:

If *while* this wearied flesh draws *fleeting* breath,
Not satisfied with life, *afraid* of death,
It *haply* be Thy will *that* I should know
Glimpse of delight, or pause from anxious woe;
From *now*, from *instant* now, great *Sire*! dispel
The clouds that press my soul.

## SECOND PAPER—Two Hours.

(EIGHT, *and not more than* EIGHT, *questions are to be answered. Of these,* THREE *must be taken from Section* A (*and of the three* 5 *must be one*), THREE *from Section* B, *and* TWO *from Section* C.)

### A.

1. Give an account of *three*, and not more than *three*, of the following: *Beowulf*, Imogen, Britomart, *Comus*, *Venice Preserved*, *The Spectator*, *Rasselas*, *Tam o' Shanter*, *A Vision of Judgment*, Quilp, *Silas Marner*, Lancelot.

2. "It is abundantly clear that malevolence is the inspiration of Jaques' humour." Examine this statement.

3. "Seeking his materials for the most part in the common paths of life—often in the humblest—Lamb gives an importance to everything, and sheds a grace over all." Illustrate this criticism from the *Essays of Elia*.

4. Describe the part played in *Barnaby Rudge* either by Hugh or by Sir John Chester.

5. Write notes on:

(*a*) What though you have no beauty,
As, by my faith, I see no more in you
Than without candle may go dark to bed.

(*b*) All the embossed sores and headed evils
That thou with licence of free foot hast caught,
Wouldst thou disgorge into the general world.

(*c*) Why are we never quite at our ease in the presence of a schoolmaster?

(*d*) What a pity to think that these fine ingenuous lads in a few years will all be changed into frivolous Members of Parliament.

(*e*) "Some that I know had better have a wild lion among them than me when I am fairly loose."

(*f*) "Ay!" cried a loud voice which made him start. "Quite ready! Stand back for your lives."

## B.

*In this Section, candidates must take the questions of only one period.*

### FIRST PERIOD, 55 B.C. TO 1603 A.D.

1. Write brief notes on *four* of the following: Nechtansmere, Malcolm I., Anselm, Strongbow, William Wallace, the Statutes of Labourers, Thomas Cromwell, Babington's Plot.

2. Give an account of the conduct as King of *one* of the following: Henry I., Malcolm III., John.

3. Write a very short essay on *one* of the following: The extension of the authority of the King of the Scots over the country south of the Forth and north of the Humber and the Dee; the relations between England and France from 1066 to 1216; Ireland under Elizabeth.

### SECOND PERIOD, 1603-1707.

1. Write brief notes on *four* of the following: The Plantation of Ulster, the Self-Renouncing Ordinance, Pride's Purge, the Clarendon Code, the Rye-house Plot, Killiecrankie, Massacre of Glencoe, Act of Settlement.

2. Write a short life of Buckingham, or Clarendon, or William III.

3. Write a very short essay on *one* of the following: The emigration to America in the reigns of James I. and Charles I.; the Long Parliament; the reign of James II.

### THIRD PERIOD.

1. Write brief notes on any *four* of the following: Treaty of Utrecht, Fontenoy, Stamp Act, Sieges of Gibraltar, Vinegar Hill, Assaye, Lines of Torres-Vedras, Cato Street Conspiracy.

2. Write a short life of the Young Pretender, or Lord Chatham, or Wellington.

3. Write a very short essay on *one* of the following: The career and character of Clive; the War with Napoleon from 1802-1815; the reign of George IV.

### C.

1. Name the chief European settlements on the West Coast of Africa, the countries to which they belong, and their chief exports.

2. What special advantages for foreign commerce are possessed by the British Isles?

3. Describe the Baltic Sea, its principal bays, gulfs, and ports.

4. Where and for what noted are Hamburg, Stettin, Sheffield, Lille, Kronstadt, Yokohama, Stockholm, Khartoum, Lhassa?

## LOWER LATIN—THREE HOURS.

### I.

1. Translate:

Decreta Carthaginiensium et Hasdrubalis iter ubi ad Romanos sunt perlata, omnibus omissis rebus, ambo duces iunctis copiis ire obviam coeptis atque obsistere parant, rati, si Hannibali, vix per se ipsi tolerando Italiae hosti, Hasdrubal dux atque Hispaniensis exercitus esset iunctus, illum finem Romani imperii fore. His anxii curis ad Hiberum contrahunt copias, et transito amne, quum diu consultassent, utrum castra castris conferrent an satis haberent sociis Carthaginiensium oppugnandis morari ab itinere proposito hostem, urbem a propinquo flumine Hiberam appellatam, opulentissimam ea tempestate regionis eius, oppugnare parant. Quod ubi sensit Hasdrubal, pro ope ferenda sociis pergit ire ipse ad urbem deditam nuper in fidem Romanorum oppugnandam. Ita iam coepta obsidio omissa ab Romanis est et in ipsum Hasdrubalem versum bellum.

2. Translate into Latin Prose:

So Cyrus knew that Croesus was a good man and that the gods loved him; and when Croesus came down from the pile, Cyrus asked him "Who persuaded thee to march into my land and to become my enemy rather than my friend?" "The god of the Greeks urged me on," answered Croesus, "for no man is so senseless as of his own pleasure to choose war in which the fathers bury their children rather than peace in which the children bury their fathers." Meanwhile the city was given up to plunder, and Croesus, standing by the side of Cyrus, asked him what the Persians were doing down below. "Surely," said Cyrus, "they are plundering thy city and spoiling thy people." "Nay," answered Croesus, "it is thy wealth which they are taking, for I and my people now have nothing. But take heed, the man who gets most of this wealth will assuredly rise up against thee."

"pile," *rogus*.

### II. GRAMMAR.

1. Give the meaning, gender, and genitive singular of *mos*, *cinis*, *salus*, *lepus*, *tus*, *vectigal* (marking the quantities of the penults in each genitive).

2. Compare *maturus*, *malevolus*, *nequam*, *gracilis*, *frugi*, *diu*, *intus*, *graviter*.

3. Give the principal parts of *gaudeo*, *seco*, *parco*, *figo*, *fingo*, *ignosco*, *metior*, *mentior*.

4. Write short sentences, with translations, to show the differences between *uter* and *uterque* ; *uterque* and *quisque* ; *accedit* and *accidit* ; *nullus* and *nemo*.

5. Distinguish between the following pairs of words : *pĕdĕs* and *pĕdēs* ; *vŏces* and *vōces* ; *lĕgo* and *lēgo* ; *ĕdo* and *ēdo*.

### III. SENTENCES.

1. Soldiers, fight bravely for your country, and do not forget your former valour.

2. He sent forward the cavalry early in the morning to seize the hill as quickly as possible.

3. He seems to have been born at Tusculum, but I know he lived many years at Syracuse.

4. He did not tell me when he would return, but he promised that on reaching Rome he would let me know.

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# HIGHER LATIN.

## FIRST PAPER—TWO HOURS.

### I.

*The untrustworthy and impious character of the Gauls.*

(*a*) An vero istas nationes religione iurisiurandi ac metu deorum immortalium in testimoniis dicendis commoveri arbitramini, quae tantum a ceterarum gentium more ac natura dissentiunt? quod ceterae pro religionibus suis bella suscipiunt, istae contra omnium religiones : illae in bellis gerendis ab dis immortalibus pacem ac veniam petunt, istae cum ipsis dis immortalibus bella gesserunt : hae sunt nationes, quae quondam tam longe ab suis sedibus Delphos usque ad Apollinem Pythium atque ad oraculum orbis terrae vexandum ac spoliandum profectae sunt ; ab isdem gentibus, sanctis et in testimonio religiosis, obsessum Capitolium est atque ille Iuppiter, cuius nomine maiores nostri vinctam testimoniorum fidem esse voluerunt. postremo his quicquam sanctum ac religiosum videri potest, qui etiam si quando aliquo metu adducti deos placandos esse arbitrantur, humanis hostiis eorum aras ac templa funestant? ut ne religionem quidem colere possint, nisi eam ipsam prius scelere violarint.

*The fall of a Carthaginian leader is reported to Hannibal.*

(*b*) Interea exanimum maesti super arma Sychaeum
portabant Poeni corpusque in castra ferebant.
quos ubi conspexit tristi clamore ruentes
ductor, praesago percussus pectora luctu,
'quinam,' inquit, 'dolor, o socii, quemve ira deorum
eripuit nobis? num te, dulcedine laudis
flagrantem et nimio primi Mavortis amore,
atra, Sychaee, dies properato funere carpsit?'

utque dato gemitu lacrimae assensere ferentum,
et dictus pariter caedis maerentibus auctor,
'cerno,' ait, 'adverso pulchrum sub pectore vulnus
cuspidis Iliacae. dignus Carthagine, dignus
Hasdrubale ad manes ibis; nec te optima mater
dissimilem lugebit avis Stygiave sub umbra
degenerem cernens noster vitabit Hamilcar.
at mihi Flaminius, tam maesti causa doloris,
morte sua minuat luctus.'

### II. Sentences.

1. I do not know when he returned: I know what he would have done, if he had heard of this.

2. If he did this, he made a mistake: if he had done what you say he did, he would have been still more to blame.

3. The house belongs to him, not to me: I have an estate at Formiae, but no house in Rome.

4. Within three days the Aedui were so thoroughly subdued that they have not taken the field since.

5. Wealth, influence, and offices of state he did not covet: he was weary of the forum, and he repented of the life he had led.

## SECOND PAPER—Two Hours.

### I. For Prose Composition.

Rumours passed rapidly through Rome meanwhile. At first men heard that the guards were up in arms against their prince, and had carried off a Senator, some said Otho, to their camp. Messengers were dispatched at once by the startled rulers to secure if possible the obedience of the other forces; while Piso appealed to the company on guard around the palace to be staunch and true even though others wavered, and then set out to face the insurgents in the camp. Shortly after came the news that the Praetorians had slain Otho to assert their loyalty, and that they were coming to salute their sovereign. The false news spread, designedly or not, and all classes who had hesitated before streamed into the palace to make a show of joy, and to conduct Galba to the camp, while one soldier in the crowd waved in the air his sword, dripping, as he said, with Otho's blood. But the Emperor, mindful of discipline to the last, said, "Comrade, who bade you do the deed?" At length he started, after much debate and doubt, but could make little way among the densely-crowded streets, and hardly reached the Forum, when the insurgent troops appeared in sight.

### II. Grammar.

1. (*a*) Give the chief parts of *perimo, perdo, pereo, iuvo.*

(*b*) Parse the following and mark the quantity of every syllable: *verebaris, adfuissetis, consuluero, potuerit.*

(*c*) Distinguish: *vēnitis, vĕnitis; mălum, mālum; vēlis, vĕlis; vĭres, vīres; dēdit, dĕdit; năto, nāto; nŏvi, nōvi; lepŏrem, lepōrem.*

2. (*a*) Illustrate the chief usages of the following: *dum, priusquam, licet, quamvis.*

(*b*) Distinguish: *scio quid quaeras, scio quod quaeris; utinam adesses, utinam adfuisses; ne facias, ne feceris, noli facere.*

(*c*) What is the meaning of the following words, and their place in a sentence: *autem, atqui, quoque. quidem.*

3. Express in Latin:

Three days later he started from Rome for Athens.
On the 9th of March he received a million sesterces.
The road was six feet in breadth.
It was his own interest to return quickly.

## LOWER GREEK.—THREE HOURS.

I. Translate:—

Ἐπεὶ δὲ Ἀγησίλαος ἐκεῖσε ἀφίκετο, πρῶτον μὲν Τισσαφέρνης πέμψας ἤρετο αὐτὸν τίνος δεόμενος ἥκοι. ὁ δ᾽ εἶπεν αὐτονόμους καὶ τὰς ἐν τῇ Ἀσίᾳ πόλεις εἶναι, ὥσπερ καὶ τὰς ἐν τῇ παρ᾽ ἡμῖν Ἑλλάδι. πρὸς ταῦτ᾽ εἶπεν ὁ Τισσαφέρνης· Εἰ τοίνυν θέλεις σπείσασθαι ἕως ἂν ἐγὼ πρὸς βασιλέα πέμψω, οἶμαι ἄν σε ταῦτα διαπραξάμενον ἀποπλεῖν, εἰ βούλοιο. Ἀλλὰ βουλοίμην ἄν, ἔφη, εἰ μὴ οἰοίμην γε ὑπὸ σοῦ ἐξαπατᾶσθαι. καὶ μετὰ ταῦτα Τισσαφέρνης μὲν ὤμοσεν ἦ μὴν πράξειν ἀδόλως τὴν εἰρήνην, ἐκεῖνος δὲ ἀντώμοσε Τισσαφέρνει ἦ μὴν ταῦτα πράττοντος αὐτοῦ ἐμπεδώσειν τὰς σπονδάς. ὁ μὲν δὴ Τισσαφέρνης ἃ ὤμοσεν εὐθὺς ἐψεύσατο· ἀντὶ γὰρ τοῦ εἰρήνην ἔχειν στράτευμα πολὺ παρὰ βασιλέως πρὸς ᾧ εἶχε πρόσθεν μετεπέμπετο. Ἀγησίλαος δέ, καίπερ αἰσθανόμενος ταῦτα, ὅμως ἐνέμενε ταῖς σπονδαῖς.

ἐμπεδώσω = *I shall ratify.*

### II. GRAMMAR.

1. Give the accusative singular of ἔρις, πατρίς, ἄστυ, θρίξ, μάρτυς, πῆχυς: the vocative singular of τοξότης, αἰδώς, ῥήτωρ, ποιμήν, σωτήρ, γυνή: the dative plural of γίγας, ναῦς, χείρ, δαίμων, λέων, δόρυ.

2. Compare αἰσχρός, σώφρων, ταχύς, παλαιός, εὖ. Give the genitive singular and dative plural in all genders of βελτίων, μέγας, γλυκύς, ἵλεως.

3. Decline in the plural σεαυτοῦ, ὅδε (all genders), ἐγώ. Distinguish αὐτός and αὑτός, αὐτόν and αὑτόν, εἶναι and εἷναι, ἰέναι and ἱέναι.

4. Conjugate, giving aorists, βαίνω, δίδωμι, ἐσθίω, πέμπω, πίνω, τυγχάνω.

5. Give the English for—τίνας τούτους ὁρῶ; τῆς νυκτὸς ἐγένετο: εἴθ᾽ ὤφελε μὴ ἀποθανεῖν: and the Greek for—*the rest of the city; he did this unobserved; I know how to learn.*

III. Translate into Greek:—

1. I fear that he may come before everything is ready.

2. He was the first to teach the Lacedaemonians music.

3. Were it not that you are in my power, I should put your children to death.

4. They said that they themselves were willing to assist me, but that their friends were not.

5. Do not forget the misfortunes which our fellow-citizens endured.

# HIGHER GREEK.

## FIRST PAPER—Two Hours.

**I. Translate :—**

*Καὶ ὃς ἀκούσας ἔφη, Σὺ μὲν, ὦ Διόγενες, ἀναισθητότατον ἁπάντων ἀνθρώπων ἀποφαίνεις τὸν Οἰδίπουν· οἱ δὲ Ἕλληνες οἴονται οὐκ εὐτυχῆ μὲν γενέσθαι ἄνθρωπον, συνετὸν δὲ πάντων μάλιστα· μόνον γοῦν αὐτὸν λῦσαι τὸ αἴνιγμα τῆς Σφιγγός. καὶ ὁ Διογένης γελάσας, Μὴ γάρ, ἔφη, ἐκεῖνος ἔλυσε τὸ αἴνιγμα ; οὐκ ἀκήκοας ὅτι ἄνθρωπον αὐτὸν ἐκέλευσε γνῶναι ἡ Σφίχξ ; ὁ δὲ ἄνθρωπον μὲν ὅ ἐστιν οὔτε εἶπεν οὔτε ἔγνω· τὸ δὲ ὄνομα τὸ τοῦ ἀνθρώπου λέγων ᾤετο λέγειν τὸ ἐρωτώμενον· ὥσπερ εἴ τις ἐρωτηθεὶς "τί ἐστι Σωκράτης" μηδὲν εἴποι πλεόν τοῦ ὀνόματος, ὅτι Σωκράτης. ἐγὼ δὲ ἤκουσά του λέγοντος ὅτι ἡ Σφίγξ ἡ ἀμαθία ἐστίν. ταύτην οὖν καὶ πρότερον διαφθεῖραι τοὺς Βοιωτοὺς καὶ νῦν, οὐδὲν αὐτοὺς ἐῶσαν εἰδέναι, ἅτε ἀνθρώπων ἀμαθεστάτους. τοὺς μὲν οὖν ἄλλους μᾶλλον τι αἰσθάνεσθαι τῆς αὑτῶν ἀνοίας, τὸν δὲ Οἰδίπουν, σοφώτατον ἡγησάμενον αὑτὸν εἶναι καὶ διαπεφευγέναι τὴν Σφίγγα καὶ πείσαντα τοὺς ἄλλους Θηβαίους τοῦτο, κάκιστα ἀπολέσθαι. ὅσοι γὰρ ἂν ἀμαθεῖς ὄντες πεισθῶσι σοφοὶ εἶναι, οὗτοι πολύ εἰσιν ἀθλιώτεροι τῶν ἄλλων ἁπάντων.*

**II. Translate :—**

*Εἶεν· τί δράσεις θυμέ ; βούλευσαι καλῶς*
*πρὶν ἐξαμαρτεῖν καὶ τὰ προσφιλέστατα*
*ἔχθιστα θέσθαι. ποῖ ποτ' ἐξῇξας τάλας ;*
*κάτισχε λῆμα καὶ σθένος θεοστυγές.*
*καὶ πρὸς τί ταῦτα δύρομαι, ψυχὴν ἐμὴν*
*ὁρῶσ' ἔρημον καὶ παρημελημένην*[1]
*πρὸς ὧν ἐχρῆν ἥκιστα ; μαλθακοὶ δὲ δὴ*
*τοιαῦτα γιγνόμεσθα πάσχοντες κακά ;*
*οὐ μὴ προδώσεις, θυμέ, σαυτὸν ἐν κακοῖς ;*
*οἴμοι δέδοκται· παῖδες ἐκτὸς ὀμμάτων*
*ἀπέλθετ'· ἤδη γάρ με φοινία μέγαν*
*δέδυκε λύσσα*[2] *θυμόν. ὦ χέρες χέρες,*
*πρὸς οἷον ἔργον ἐξοπλιζόμεσθα· φεῦ*
*τάλαινα τόλμης, ἣ πολὺν πόνον βραχεῖ*
*διαφθεροῦσα τὸν ἐμὸν ἔρχομαι χρόνῳ*

[1] *neglected.* [2] *madness.*

*Or*

*Ἔνθεν δ' ἐννῆμαρ φερόμην ὀλοοῖς ἀνέμοισι*
*Πόντον ἐπ' ἰχθυόεντα· ἀτὰρ δεκάτῃ ἐπέβημεν*
*Γαίης Λωτοφάγων, οἵ τ' ἄνθινον εἶδαρ ἔδουσιν.*
*Ἔνθα δ' ἐπ' ἠπείρου βῆμεν καὶ ἀφυσσάμεθ' ὕδωρ,*
*Αἶψα δὲ δεῖπνον ἕλοντο θοῇς παρὰ νηυσὶν ἑταῖροι.*
*Αὐτὰρ ἐπεὶ σίτοιό τ' ἐπασσάμεθ' ἠδὲ ποτῆτος,*
*Δὴ τότ' ἐγὼν ἑτάρους προΐειν πεύθεσθαι ἰόντας*
*Οἵ τινες ἀνέρες εἶεν ἐπὶ χθονὶ σῖτον ἔδοντες,*
*Ἄνδρε δύω κρίνας, τρίτατον κήρυχ' ἅμ' ὀπάσσας.*
*Οἱ δ' αἶψ' οἰχόμενοι μίγεν ἀνδράσι Λωτοφάγοισιν.*
*Οὐδ' ἄρα Λωτοφάγοι μήδονθ' ἑτάροισιν ὄλεθρον*
*Ἡμετέροις, ἀλλά σφι δόσαν λωτοῖο πάσασθαι.*
*Τῶν δ' ὅς τις λωτοῖο φάγοι μελιηδέα καρπὸν,*
*Οὐκέτ' ἀπαγγεῖλαι πάλιν ἤθελεν οὐδὲ νέεσθαι.*
*Ἀλλ' αὐτοῦ βούλοντο μετ' ἀνδράσι Λωτοφάγοισι*
*Λωτὸν ἐρεπτόμενοι μενέμεν νόστου τε λαθέσθαι.*

εἶδαρ = *food.* ἐρεπτόμενοι = *feeding on.*

## SECOND PAPER—Two Hours.

For Greek Prose:

It chanced on one occasion that Diogenes the Philosopher was staying at Corinth at the time of the Isthmian games. The judges were indignant because he appeared in public crowned with a chaplet of *pine*, which was the prize of victory, and sent messengers to bid him remove it from his head. But Diogenes refused maintaining that he had a right to wear it, for he had overcome far more formidable antagonists than ever contended in running or wrestling. "I have vanquished," said he, "poverty and ill fame, anger and desire, and that most terrible of adversaries, Pleasure, to which all other men, Greek or barbarian, are slaves. Surely then I deserve the prize far more than those who have done nothing but eat more flesh of oxen than their neighbours."

pine: *πίτυς.*

### GRAMMAR.

1. Conjugate, giving aorists: *ἐφίστημι, καθαιρῶ, καθαίρω, χαίρω, τίκτω, ῥέω, σκοπῶ, κρεμάννυμι.*

2. Distinguish: *τεθῆναι, ταθῆναι: πάντες πολῖται, πάντες οἱ πολῖται: γεύειν, γεύεσθαι: ποιεῖν ὁδόν, ποιεῖσθαι ὁδόν: ἐπίσταμαι δρᾶν, ἐπίσταμαι δρῶν.*

3. What points in syntax are exemplified by the following?

(*a*) *τί κωλύει μὴ οὐκ ἀπελθεῖν ἐμέ;*
(*b*) *οὐ γάρ σε μὴ γνῶσι.*
(*c*) *οὐ πρότερον ἐπαύσαντο πρὶν ἐξέβαλον αὐτούς.*
(*d*) *ἐπιμελεῖται ὅπως τοῦτο γενήσεται.*
(*e*) *σιγᾶθ' ὅπως μή τις ἀπαγγείλῃ ταῦτα.*

4. Form sentences to show the construction of *ὥστε* and *ἐφ' ᾧτε.*

5. Translate into Greek:

(*a*) Should the cavalry arrive first you must forbid them to advance until they receive the signal.
(*b*) They did not deny that they would have stolen the money if they had found an opportunity.
(*c*) Do not attempt things too great for your strength.

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## LOWER MATHEMATICS—Three Hours.

*Candidates may obtain* FULL *marks by doing about two-thirds of this paper. But the Examiners may reject a Candidate who shows exceptional weakness in any of the sections A, B, C.*

*Answers, where work is not shown, will not be awarded marks.*

### A.

1. Express $1 \div \left\{\left(\frac{1}{2}\right)^2 \times \frac{\cdot 2}{\cdot 875}\right\}$ as a decimal of $\dfrac{1}{1 - \dfrac{2}{3 - \frac{4}{5}}}$.

2. Express in prime factors the G.C.M. and L.C.M. of

220500, 3630, 594.

3. If the simple interest on £75 for three years be £7. 10s., what sum will amount to £100 in two years?

4. What is the loss per cent. on the cash invested when 3 per cent. stock bought in at par is sold out at $10\frac{7}{8}$ per cent. discount, brokerage ($\frac{1}{8}$) being allowed in each transaction?

5. If the railroad between the city and a suburb be 10 per cent. shorter than the car line, and the rate of travel by rail be 350 per cent. quicker than by car, what is the daily saving of time to a business man who used to spend half an hour each day travelling by car?

6. A rectangular lawn is twice as long as it is broad. Its area is 300 square yards. Find its breadth in yards exact to two places of decimals.

7. A pupil multiplied by 72 when he ought to have multiplied by 27. The answer he got exceeded the true answer by 5535. Find the true answer.

B.

8. Two sums of £120 and £150 are invested in separate businesses, of which the second pays a percentage higher by 4 than the first. The dividends received at the end of a year differ by £7. What percentages do the businesses pay?

9. Find factors of each of the following expressions, and express in factors their H.C.F. and L.C.M.

$$4a^2x + c^2y - 4a^2y - c^2x,$$
$$cx^3 + 2ay^3 - cy^3 - 2ax^3.$$

Simplify $$\frac{2x^3 + 5x^2 + 5x + 3}{2x^3 + x^2 + x + 6}.$$

10. Solve $$\frac{x^2 - a^2}{a - x} + \frac{x^3 - b^3}{b - x} + \frac{x^3 + c^3}{c + x} = b - c - a.$$

11. Solve
$$3x - 5ay + 12 = 0$$
$$2x + 3ay = 11.$$

12. Given $$x = \frac{2 - 3y}{5} \text{ and } z = \frac{5x - 8}{2}$$
express $y$ in terms of $z$.

13. Find the distance in minute spaces between the hands of a watch at a quarter past four. When next will there be exactly the same space between them?

14. Find quotient and remainder when
$$ax^3(x - h) + (b - c)x^2 + cx(b + h) - bhx$$
is divided by $x - h$.

C.

15. If two triangles have two sides of the one equal to two sides of the other, each to each, but the contained angles unequal, the triangle which has the greater contained angle has the greater base.

If in triangle $ABC$, $AB$ be greater than $AC$, and $X$ be the mid-point of $BC$, any point taken in $AX$ produced through $X$ is nearer to $B$ than to $C$.

16. Complements of parallelograms about the diagonal of a parallelogram are equal.

$ABCD$ are the vertices in order of a parallelogram. Through a point $O$ inside, straight lines are drawn parallel to the sides. If the parallelograms $AO$ and $CO$, thus formed, are equal, prove that the points $B$, $O$, and $D$ lie on a straight line.

17. Describe a square equal in area to a given rectilineal figure.

Divide a given line $AB$ at $H$ so that the rectangle $AB \cdot BH$ may be equal to a given square.

18. If two angles stand on the same arc, one at the centre, the other at the circumference of a circle, one of them is double the other.

If one chord of a circle be double another, the first subtends at the centre an angle which is more than double the angle subtended at the centre by the other.

19. Of all lines which pass through a given point on the circumference of a circle, only that line which is perpendicular to the radius at the point touches the circle. Any other cuts the circle. Prove these statements.

Show that all chords parallel to a tangent are bisected by the diameter through the point of contact.

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## INTERMEDIATE AND HIGHER MATHEMATICS.

### FIRST PAPER—Two Hours.

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*The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the Syllabus of the Intermediate Standard: but such Candidates will receive credit for any question they may answer.*

*Answers, where work is not shown, will not be awarded marks.*

A.

1. One company of men received each £3. 10s. 11d.; another company £3. 14s. 9d. each. The total amount received by the former was double that received by the latter. Find the smallest possible numbers in the two companies.

2. Simplify $$\frac{\dfrac{ab}{c} - \dfrac{bc}{a} + \dfrac{ca}{b} + 2a}{\dfrac{ab}{c} + \dfrac{bc}{a} - \dfrac{ca}{b} + 2b}.$$

3. Find when $x^n + a^n$ is exactly divisible by $x + a$; $n$ being a whole number.

Show that $(4x^2 - 3x + 1)^3 - (x^2 + 3x + 2)^3$ is exactly divisible by $3x^2 - 6x - 1$.

4. If $p$ is any prime number other than unity, and $m$ any whole number, show that $x^2+mpx+p$ cannot be resolved into simple factors with integral coefficients.

5. Solve (α) $\left.\begin{array}{l}(a+b)x-(a-b)y=1\\(a-b)x+(a+b)y=1\end{array}\right\}.$

(β) $\dfrac{5}{x^2-3x+2}-\dfrac{x+1}{x^2-5x+6}=\dfrac{4x+34}{x^2-4x+3}.$

(γ) $\left.\begin{array}{l}x^2+y^2=7+xy\\x^3+y^3=7(xy+1)\end{array}\right\}.$

6. Simplify $\left\{(\sqrt[b]{x})^a \div \sqrt[a]{x^b}\right\}^{\frac{a}{a+b}}$ and find its value when $x=32$, $a=3$, $b=5$.

7. The expense of coaling a steamboat is proportional to the cube of the number of miles run per hour, and is ten shillings an hour when the speed is twelve miles an hour. Other expenses come to £50 a day. What is the cost of a journey of 5184 miles at 18 miles an hour?

B.

8. Describe a circle which shall pass through three given points. Can this always be done?

$ABC$ is a triangle, and $AD$, $BE$ the perpendiculars on $BC$, $CA$ meet in $O$. Prove that a circle will go through the points $DCEO$ and that the tangent at $O$ is parallel to $AB$.

9. Describe an isosceles triangle with each of the base angles double the vertical angle.

Describe a quadrilateral such that three of its angles shall be equal and the fourth angle one-third of each of them.

10. If two triangles have each angle of one equal to an angle of the other, prove that the sides about the equal angles shall be proportional.

In a variable triangle $APB$ the base $AB$ is fixed and the angle $APB$ is given in magnitude. On $PA$ and $PB$ are taken points $D$, $E$ such that $PD$ is half $PB$ and $PE$ is half $PA$. If $BD$ and $AE$ meet in $Q$, show that $Q$ always lies in a certain circle.

11. If a straight line be perpendicular to a plane show that all planes containing it shall be perpendicular to the same plane.

$OC$ is perpendicular to $OA$ and $OB$, which make with one another an angle of 45°. If $OC$ is equal to $OB$ and if from $B$ a perpendicular $BA$ is drawn to $OA$, and $CA$ be joined, find the angles of the triangle $CAB$.

C.

12. Define the tangent and the secant of an acute angle and find a formula connecting them.

The secant of an acute angle is $\frac{5}{3}$. Is the angle greater or less than 45°?

13. Prove that (α) $\cos^2\theta=(1+\sin\theta)^2-2\sin\theta(1+\sin\theta)$,

and (β) $(\tan^2\alpha-\sin^2\alpha)(1+\tan^2\alpha)=\tan^4\alpha$.

14. Prove geometrically that if $\alpha$ be less than a right angle and $\beta$ less than $\alpha$,

$$\cos(\alpha-\beta)=\cos\alpha\,.\,\cos\beta+\sin\alpha\,.\,\sin\beta.$$

Prove that

$$\cos 2\alpha+\cos 4\alpha+\cos 6\alpha+\cos 8\alpha=4\cos 5\alpha\,.\,\cos 2\alpha\,.\,\cos\alpha.$$

## SECOND PAPER—Two Hours.

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*Answers, where work is not shown, will not be awarded marks.*

### A.

1. Income-Tax is payable by all Incomes at a shilling per pound ; but from incomes below £500, £150 is deducted before assessment. Calculate to the nearest pound what income (less than £500) a man must have so that after paying the tax he may be exactly as well off as if his income had been £500.

2. Resolve into simple factors

$$(\alpha)\ 1-x+y-56(x-y)^2,$$
$$(\beta)\ (a+b)x^2-2(a^2+ab+b^2)x+(a+b)(a^2+b^2).$$

3. Extract the square root of

$$\frac{a^4}{b^2}+\frac{b^4}{a^2}+3a^2+3b^2+\frac{2a^3}{b}+\frac{2b^3}{a}+4ab.$$

4. Simplify and calculate to two decimal places the value of

$$\frac{(5+\sqrt{5})(5+\sqrt{7})(\sqrt{7}-2)}{(7-\sqrt{7})(1+\sqrt{5})}.$$

5. Solve the equations

$$(\alpha)\ 3ax^2-x=\frac{24}{a}.$$

$$(\beta)\ \left\{\begin{array}{l} xy+2x+3y=2 \\ x^2+y^2=7-4y-6x \end{array}\right\}.$$

6. A dealer bought 50 cows. He cleared his money by selling 40 of them. The remaining 10 fetched £1 a head more than these. On the whole he gained 30 per cent. What did he pay per head?

7. Construct the equation whose roots are $\alpha$ and $\beta$.

If it is $x^2-px+q=0$, show that the equation whose roots are $\alpha+1$, $\beta+1$ is $x^2-(p+2)x+q+p+1=0$.

### B.

8. If a straight line $AB$ be divided equally in $C$ and unequally in $D$, show that the square on $CB$ shall be equal to the rectangle $AD.DB$ together with the square on $CD$.

Prove geometrically that the difference of the squares on $AD$ and $DB$ is equal to the rectangle whose sides are $AB$ and double $CD$.

9. If four straight lines are proportional, the rectangle contained by the extremes shall be equal to the rectangle contained by the means.

$ABC$ is a triangle. Find on $AB$ between $A$ and $B$ a point $P$ such that $PC$ shall be a mean proportional between $PA$ and $PB$. When is there no solution?

10. If a quadrilateral be inscribed in a circle, prove that the rectangles contained by pairs of opposite sides are together equal to the rectangle contained by the diagonals.

A series of quadrilaterals having one side common is inscribed in a given circle. For which is the sum of the rectangles contained by the pairs of opposite sides a maximum?

11. Draw a perpendicular to a given plane from a given point outside it.

$AB$ and $CD$ are two parallel lines. From a given point $P$, $PM$ is drawn perpendicular to $AB$ and $MN$ is drawn perpendicular to $CD$. Prove $PN$ perpendicular to $CD$.

### C.

12. The sine of an angle is three times the cosine. Calculate the cosine to two decimal places.

Find the sine and the cosine of an angle when it is known that they are proportional to 45 and 28 respectively.

13. Given $\cos\theta = \frac{1}{2}$ there are two values of $\theta$ less than $360^\circ$. Explain this and find the values.

14. Show that in any triangle the sides are proportional to the sines of the opposite angles.

A triangle has two sides 30 and 40 feet and the contained angle 56°. Calculate the perpendicular on the larger side and the area, having given

$$\begin{aligned} \log 3 &= \cdot 4771213 \\ L\sin 56^\circ &= 9\cdot 9185742 \\ \log 2\cdot 4871 &= 0\cdot 3956932 \\ \text{Diff. for } \cdot 0001 &= \cdot 0000175. \end{aligned}$$

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## FRENCH.

### FIRST PAPER—One Hour and a Half.

Translate into French:

(*a*) Some years ago I was travelling towards the land where the last hope of the Bonapartes fell in savage warfare while wearing the uniform of the army which crushed the founder of his dynasty. At the early close of a tropical day the dark rock of St. Helena rose before us in the sea. At sundown the ship lay at anchor in the road-stead, and night fell on the island with sudden swiftness. In the muffled moonlight of a cloudy evening, I rode across the hills which lie between Jamestown and Longwood, where, in the mean house upon the heights overlooking the wastes of ocean, across which he used to gaze, I saw by dim candlelight the bare chamber in which Napoleon died. A few hours later, when the ship was leaving behind the grim cliffs in their solitude, my impressions of the lonely ride which was weird enough to move the least imaginative, were disturbed by the question of an unsentimental traveller, a Scottish legislator, who, in the voice of common sense, asked who was this Bonaparte, and what title had he to the style of Napoleon the Great. Bodley.

(*b*) 1. Come as soon as you can.
2. I hope I shall see you before your departure.
3. What time do you think it is?
4. I had just got up when some one knocked at the door.
5. He was given an interesting book.

## SECOND PAPER—Two Hours.

I. Translate into English:

(*a*) Il est facile, quand on visite ce qui reste du château de Grignan, de se faire une idée de la grande vie qu'on menait dans ces somptueuses demeures et des dépenses de toute espèce qui en étaient la suite inévitable. Grignan est bâti sur une éminence qui se dresse au milieu d'une vaste plaine. Le rocher a été taillé, maçonné, entouré de murs, pour former une sorte de substruction inaccessible sur laquelle s'élève le château. Le long des flancs escarpés serpentent des rues étroites, que bordent les maisons d'un misérable village qui semble s'être accroché là pour vivre en repos sous une protection puissante. L'entrée du château est défendue par une fortification massive, percée de meurtrières, flanquée de deux tours crénelées. Une fois que la porte s'est ouverte et qu'on a pénétré dans l'intérieur, l'aspect change : la forteresse devient un palais. Par malheur, ce palais est aujourd'hui presque entièrement à terre, il n'en reste que des pans de murs et quelques débris de salles ; mais ces débris ont un caractère de grandeur et d'élégance rares.

G. BOISSIER.

(*b*) Que ton visage est triste et ton front amaigri,
Sublime Michel-Ange, ô vieux tailleur de pierre !
Nulle larme jamais n'a mouillé ta paupière,
Comme Dante, on dirait que tu n'a jamais ri.

Hélas ! d'un lait trop fort la Muse t'a nourri,
L'art fut ton seul amour et prit ta vie entière ;
Soixante ans tu courus une triple carrière
Sans reposer ton cœur sur un cœur attendri.

Pauvre Buonarotti ! ton seul bonheur au monde
Fut d'imprimer au marbre une grandeur profonde,
Et, puissant comme Dieu, d'effrayer comme lui :

Aussi, quand tu parvins à ta saison dernière,
Vieux lion fatigué, sous ta blanche crinière,
Tu mourus longuement, plein de gloire et d'ennui.

### II. GRAMMAR.

1. Construct short sentences in French to show the use of the following: *avant*, *avant de*, *avant que*, *penser à*, *s'attendre à*. Translate the sentences into English.

2. Form sentences to show the syntactical constructions in verbs dependent upon *espérer*, *vouloir*, *douter* (used negatively), *quoique*, *parce que*.

3. Translate :

(1) He sings out of tune.
(2) He lives in Marseilles, a town in the south of France.
(3) Queen Victoria was the grand-daughter of George III.
(4) Chapter one, page nine.
(5) April 4th, 1902.

4. Explain the difference between *peuple* and *people*, *gai* and *gay*, *meurtrir* and *murder*, *heurter* and *hurt*, *esprit* and *spirit*.

### III. PHILOLOGY AND LITERATURE.

(*Only* ONE *question to be answered.*)

1. Give the derivation of : *jour*, *être*, *en*, *cheval*, *beaucoup*.

2. Shew by a few examples that the basis of modern French is chiefly *popular* and not *literary* Latin.

3. Give the subject matter of *Le Cid*, or *Le Bourgeois Gentilhomme*, or a sermon, or a funeral oration of Bossnet.

4. *Discuss the morality* of one of La Fontaine's fables.

5. What comedy did Racine write? Give a summary of it.

## GERMAN.

### FIRST PAPER—ONE HOUR AND A HALF.

(*The Candidate may use either English or German script.*)

Translate into German :

(*a*) "Why," said Rasselas, "should you envy others so great an advantage? All skill ought to be exerted for the benefit of all ; every man has owed much to others, and ought to repay the kindness that he has received." "If men were all virtuous," replied the artist, "I should be very glad to teach them all to fly. But what would be the security of the good, if the bad could at pleasure fall upon them from the sky? Against an army sailing through the clouds, neither walls, nor mountains, nor seas could afford any security. A flight of northern savages might hover in the wind, and come down at once with irresistible violence upon the capital of a fruitful region that was stretching under them. Even this valley, the home of princes, the abode of happiness, might be violated by the sudden descent of some of the naked nations that live on the coast of the Southern sea." JOHNSON, *Rasselas* (simplified).

(*b*) 1. I am not sure whether I ought to have done this or not.

2. Far from confessing his faults, he even denies them.

3. After passing your father's house, I saw our friend crossing the street.

4. You need not have gone out of your way to tell me this old story.

5. I asked him what there was to prevent my leaving the city immediately.

## SECOND PAPER—Two Hours.

**I. Translate into English:**

(*a*) An estimate of the poet, *Walther von der Vogelweide.*

Kaum einer von den Dichtern des Mittelalters iſt ſo mit ſeinem eigenſten Leben in unſere Zeit herüber getreten wie Walther von der Vogelweide. Seine zahlreichen Lieder ſind es, die ſein Andenken und mehr als dies, ein klares Bild ſeines äußern und innern Lebens, auf uns gebracht haben. Er hat nicht ſeine Perſönlichkeit in der alten Heldenſage des deutſchen Volkes untergehen laſſen, noch hat er ſeine Kunſt von Ritter- und Zaubermären vom heiligen Gral, von der Tafelrunde u. s. w. zugewendet, ſondern er hat die Gegenwart ergriffen. Und hiebei hat er wieder nicht bloß den Mai und die Minne geſungen, vielmehr iſt er gerade der vielſeitigſte und umfaſſendſte unſrer Liederdichter: er behandelt die verſchiedenſten Richtungen und Zuſtände der menſchlichen Seele, er betrachtet die Welt, er ſpiegelt in ſeinem beſondern Leben das öffentliche, er knüpft ſeine eigenen Schickſale, wenn auch in ſehr untergeordnetem Verhältniß, an die wichtigſten Perſonen und Ereigniſſe ſeiner Zeit. UHLAND.

### (*b*) HOPE.

1. Es reden und träumen die Menſchen viel
Von beſſeren künftigen Tagen,
Nach einem glücklichen gold'nen Ziel
Sieht man ſie rennen und jagen,
Die Welt wird alt und wird wieder jung,
Doch der Menſch hofft immer Verbeſſerung.
2. Die Hoffnung führt ihn ins Leben ein,
Sie umflattert den fröhlichen Knaben,
Den Jüngling bezaubert ihr Geiſterſchein,
Sie wird mit dem Greis nicht begraben;
Denn beſchließt er im Grabe den müden Lauf,
Noch am Grabe pflanzt er die Hoffnung auf.
3. Es iſt kein leerer ſchmeichelnder Wahn,
Erzeugt im Gehirne des Thoren;
Im Herzen kündet es laut ſich an:
Zu was Beſſerm ſind wir geboren!
Und was die innere Stimme ſpricht,
Das täuſchet die hoffende Seele nicht. SCHILLER.

### II. GRAMMAR.

1. Compare: *Stolz*, *gern*, *fromm*, *bald*, *nahe.*

2. Parse: *Dächte*, *däuchte*; *flöhe*, *flöchte*; *hieb*, *hob*; *zeihest*, *ziehest*; *böte*, *bäte.*

3. Illustrate by examples the use of the following prepositions, and translate the examples: *Gegenüber*, *jenseit*, *neben*, *nebst*, *zwischen.*

4. Translate the following sentences and write a note on the words underlined:

(*a*) Du biſt erſt eine halbe Stunde hier und brauchſt erſt um ſechs Uhr dort zu ſein.

(*b*) Noch am Abend nach der Schlacht ließ er die Ritter enthaupten.

(*c*) Das alte Ritterſchwert, wie es damals ſchon kein Menſch zu führen pflegte, ward im Rathhaus aufbewahrt.

(*d*) Verſuche es nur; es wird ſchon gehen.

(*e*) Ihr Bruder iſt wohl nicht zu Hauſe? Doch!

### III. PHILOLOGY AND LITERATURE.

*Only* ONE *question to be attempted.*

1. Give a philological analysis of the following words: *Fruchtbar*, *sittsam*, *zwanzig*, *eilends*, *Buchstabe.*

2. Classify the *Fremdwörter*, or imported words, in German, and state at what periods and under what influences they were introduced.

3. Which of the prescribed authors contributed to the evolution of the *Sturm und Drang* movement? How did they exercise their influence?

4. Give a short account of any *one* of the following: *Laocoon*, *Oberon*, *Lenore*, *Ideen zur Philosophie der Geschichte der Menschheit.*

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## ITALIAN.

### FIRST PAPER—ONE HOUR AND A HALF.

Translate into Italian:—

(*a*) A great writer is the friend and benefactor of his readers. The debt which a man of liberal education owes to the great minds of former ages is incalculable. They have guided him to truth. They have filled his mind with noble and graceful images. They have stood by him in all vicissitudes, comforters in sorrow, nurses in sickness, companions in solitude. These friendships are exposed to no danger by which other attachments are weakened or dissolved. Time glides on; fortune is inconstant; tempers are soured; bonds which seemed indissoluble are daily sundered by interest, by emulation or by caprice. But no such cause can affect the silent converse which we hold with the highest of human intellects. That placid intercourse is disturbed by no jealousies or resentments. These are the friends who are never seen with new faces, who are the same in wealth and in poverty, in glory and in obscurity. With the dead there is no rivalry. In the dead there is no change. MACAULAY.

(*b*) 1. I have often thought that if I were compelled to live there I should go mad.

2. The next best thing to capital is credit.

3. I had to obey and go out.

## SECOND PAPER—TWO HOURS.

I. Translate into English:

(*a*) Federigo Borromeo, nato nel mille cinquecento sessantaquattro, fu degli nomini rari in qualunque tempo, che abbiano impiegato un ingegno egregio, tutti i mezzi d'una grand' opulenza, tutti i vantaggi d' una condizione privilegiata, a un intento continuo nella ricerca e nell' esercizio del meglio. La sua vita è come un ruscello, che, scaturito limpido dalla roccia, senza ristagnare nè intorbidarsi mai, in un lungo corso, per diversi terreni, va limpido a gettarsi nel fiume. Tra gli agi e le pompe, badò fin dalla puerizia a quelle parole d' abnegazione e d' umiltà, a quelle massime intorno alla vanità dei piaceri, all' ingiustizia dell' orgoglio, alla vera dignità e a' veri beni, che, sentite o non sentite ne' cuori, vengono trasmesse da una generazione all' altra, nel più elementare insegnamento della religione. MANZONI.

(*b*)
Un giorno la speranza
Per ciaschedun mortale
Fece un bel cannocchiale.
Questo, com' è d' usanza,
Dall' un de' lati suoi
Ingrandisce l' oggetto oltre misura,
Dall' altro lato poi
Mostra piccola e lungi ogni figura.
Se l' nom dal primo lato il guardo gira
Il ben futuro mira;
Guarda dall' altro lato
E vede il ben passato.

### II. GRAMMAR.

1. Give the past definite and past participle of: *accendere*, *chiedere*, *crescere;* and the present indicative of: *andare*, *apparire*.

2. Give the plural of: *biancospino*, *passatempo*, *capofila*, *capoluogo*, *mezzaluna*.

3. Translate with notes:

Il nocciuolo, domandato quando ei fosse per mandar fuori sue frutta, essendo fiorito nel mezzo dell' inverno, rispose: Quando sarà tempo.

### III Philology and Literature.

1. Comment on the use of the following words, giving their English equivalents : *aiuto*, *soccorso*, *assistenza*.

2. Explain the formation of the following words : *Libraio*, *macchinista*, *bellezza*, *omaccio*, *fortemente*, *cassapanca*, *ingiusto*, *condividere*.

3. Give the subject-matter of one of the following plays :

Goldoni : *La Locandiera.*
*La Bottega del Caffè.*
*Il Ventaglio.*
Alfieri : *Saul.*
*Antigone.*
*Filippo.*
Manzoni : *Adelchi.*

4. Give a sketch of the life of Tasso or of Dante, indicating their chief works.

## HEBREW.

### FIRST PAPER—Two Hours.

I. Point and translate :

וישא־לוט את־עיניו וירא את־כל־ככר הירדן
כי כלה משקה לפני שחת יהוה את־סדם ואת־
עמרה כגן־יהוה כארץ־מצרים באכה צער: ויבחר־
לו לוט את כל־ככר הירדן ויסע לוט מקדם ויפרדו
איש מעל אחיו: אברם ישב בארץ־כנען ולוט ישב
בערי הככר ויאהל עד־סדם: ואנשי סדם רעים
וחטאים ליהוה מאד:

II. Translate into Hebrew, with vowel points :

1. When the queen of Sheba had seen all Solomon's wisdom, and the house that he had built for himself, there was no more spirit in her ; and she said to the king, Blessed be the Lord thy God, which delighted in thee, to set thee on the throne of Israel ; because the Lord loved Israel for ever, therefore He made thee king, to do judgment and justice.

2. And He gave His people the lands of the nations, that they might observe His statutes and keep His laws, which He gave to Moses His servant.

3. She saw a well of water, and she went and filled the bottle with water, and made the boy drink.

## SECOND PAPER—Two Hours.

I. Translate:

1 הֵן הָאָדָם הָיָה כֵּאלֹהִים יֹדֵעַ טוֹב וָרָע וְעַתָּה פֶּן־יִשְׁלַח
יָדוֹ וְלָקַח מֵעֵץ הַחַיִּים וְאָכַל וָחַי לְעֹלָם׃

2 וַיִּנָּחֶם יהוה כִּי עָשָׂה אֶת־הָאָדָם בָּאָרֶץ׃

3 הִתְהַלֵּךְ לְפָנַי וֶהְיֵה תָמִים וְאֶתְּנָה בְרִיתִי בֵּינִי וּבֵינֶךָ
וְאַרְבֶּה אוֹתְךָ מְאֹד׃

4 וַיֹּאמְרוּ לוֹ אַנְשֵׁי הָעִיר בַּיּוֹם הַשְּׁבִיעִי מַה־מָּתוֹק מִדְּבַשׁ
וּמֶה עַז מֵאֲרִי׃

5 אַתָּה תְדַבֵּר אֵת כָּל־אֲשֶׁר אֲצַוֶּךָּ וְאַהֲרֹן אָחִיךָ יְדַבֵּר
אֶל־פַּרְעֹה וְשִׁלַּח אֶת־בְּנֵי־יִשְׂרָאֵל מֵאַרְצוֹ׃

II. Parse אצוך וארבה וינחם החיים ידע as above.

III. Explain the formation and meaning of the ordinary conjugations; give an example of the *participle* of each.

IV. Write these nouns, sing. and plur., with the article: Mountain, Day, House, Head, Mother.

V. Write the plural of דבר with suffixes.

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## DYNAMICS—Three Hours.

(*Candidates may obtain* FULL *marks by doing about two-thirds of this paper. Answers, where work is not shown, will not be awarded marks.*)

1. A particle moves round a square $ABCD$ with a uniform speed of 200 feet per minute. What uniform speed in feet per second along the diagonal $AC$ would effect the displacement from $A$ to $C$ in the time in which it is actually effected?

Express the velocity along $AB$ in centimetres per second, given that a metre is 39 inches.

2. Give a geometrical construction for measuring change of velocity.

In question 1, find the direction and magnitude of the change of velocity of the particle as it passes through $B$.

3. Define force and momentum, and state the relation between them. Describe any method of verifying (approximately) this relation, by observation or experiment.

A mass of 10 lbs. moving East with a velocity of 10 feet per second comes under the action of two forces, one of 30 poundals West, the other of 40 poundals North. Find the magnitude and direction of its velocity after 10 seconds.

4. In the light of the Third Law of Motion, discuss the motion of a horse pulling a cart,—explaining the conditions among the forces which make motion possible.

If a mass of 3 lbs., free to move, repel a mass of 4 lbs., free to move, with a constant force of 1 poundal, and the distance between the masses be 100 feet to begin with, find the distance after 10 seconds.

5. A bullet is projected with velocity $u$ in a direction making an angle $\alpha$ with the horizon, find its range on a horizontal plane drawn through the point of projection, and find for what value of $\alpha$ the range is a maximum.

A bullet is projected with a velocity of 1000 feet per second in a direction making an angle of 45° with the horizon. Calculate, neglecting the friction of the air, after how many seconds it will touch the earth again.

6. Show in the case of a falling body that the force of gravity is a measure of the rate of change of kinetic energy per unit of space traversed.

A body of mass 10 lbs. is thrown to the height of 100 feet. Determine its energies, kinetic and potential, (i) leaving the earth; (ii) at highest point; (iii) after striking the earth.

7. Prove in the case of two intersecting forces that the algebraic sum of their moments about any point is equal to the moment of their resultant about that point.

Assuming this to be true for parallel forces, determine the magnitude, direction, and line of action of the resultant of two dissimilar parallel forces.

8. Define a couple, and establish the law of composition of couples.

Find the resultant force or resultant couple in each of these two cases: (i) a system of forces represented in magnitude and line of action by $AB$, $BC$, $CD$, $DA$; (ii) a system of forces represented by $AB$, $AC$, $DB$, $DC$ ($ABCD$ being an irregular quadrilateral).

9. $A$, $B$, $C$ are three equal particles at the angles of a triangle; find their centre of mass.

If $O$ be any point, and $G$ the centre of mass, prove that the resultant of three forces represented by $OA$, $OB$, $OC$ is represented by three times $OG$.

10. Find the mechanical advantage of the inclined plane by the principle of work, the force being applied parallel to the plane.

A wheel 1 foot in diameter has an axle 1 inch in diameter. Find by the principle of work the mechanical advantage of the machine.

11. From the definition of a liquid derive the law of the equal transmission of pressure.

Describe the Bramah press, and express the mechanical advantage in terms of the diameters of the ram and plunger.

12. Describe Nicolson's hydrometer, and explain how it would be used to determine the specific gravity of a piece of lead.

On what does the sensibility of Nicolson's hydrometer depend? Give reasons for your answer.

13. Given a U tube, a metre measure, mercury, and water, describe an experiment to determine the specific gravity of mercury.

A straight barometer tube, 33 inches long, is filled with mercury and inverted in a wide deep cistern of mercury. The column stands at 28·98 inches. Water is poured into the cistern until the level of the water outside is exactly the same as the level of the mercury inside the barometer tube. Calculate the depth of water. (The specific gravity of mercury is 13·6.)

14. Establish the law of variation of pressure with depth in heavy liquids.

Find the centre of pressure on a triangular plate, placed with its plane vertical, in a vessel of liquid, its base being in the surface of the liquid.

15. Investigate the total work done by gravity (i) when unequal masses $M$ and $m$ hung over a pulley move through a space $h$; (ii) when a piece of lead of specific gravity $s$ and mass $m$ is allowed to sink slowly through water through a distance $h$. In each case neglect friction.

Use (ii) to deduce the principle of Archimedes.

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## II.—FOR THE DEGREE OF M.A.

### I. FOR ORDINARY DEGREE.

### *A.—DEPARTMENT OF LANGUAGE AND LITERATURE.*

### LATIN TRANSLATION—Two Hours.

1. Translate:

(*a*) Virg. *Aen.* XI. 567—580.
(*b*) Virg. *Aen.* XI. 266—268.

Explain (*a*) the allusion, (*b*) the meaning of *subsedit.*

2. (*a*) Translate:

Hor. *Odes*, II. 2. 13—24.

(*b*) Translate and explain:

Hor. *Odes*, IV. 4. 37—44.

3. Translate:

*Either* (*a*) Hor. *Sat.* I. 10. 50—64.
*Or* (*b*) Hor. *Epist.* II. 2. 180—194.

4. Translate, and explain by reference to the context:

*Either* (*a*) Cic. *Phil.* II. 38. 98. 99.
*Or* (*b*) Cic. *Pro Cluent.* 26. 71.
*Or* (*c*) Cic. *Ad Atticum*, II. 18. 3. 4.

5. Translate:

Tac. *Ann.* VI. 16. 1—4.

What were the provisions of the *lex* referred to?

## LATIN PROSE—Two Hours.

During the night the Athenians thought it wise to abandon their position near Miletus and return to Samos with their wounded and their baggage. Having heard of the arrival of Theramenes with his fleet, they preferred leaving their victory unimproved to the hazard of a general battle. Two out of the three commanders, indeed, were at first inclined to take the latter course, insisting that the maritime honour of Athens would be tarnished by retiring before the enemy. But the third, Phrynichus, opposed with so much emphasis the proposition of fighting, that he at length induced his colleagues to retire. The fleet (he said) had not come prepared for fighting a naval battle, but full of infantry for land operations against Miletus; the numbers of the newly-arrived Peloponnesians were not accurately known; and a defeat at sea, under existing circumstances, would be utter ruin to Athens. Thucydides bestows much praise on Phrynichus for the wisdom of this advice, which was forthwith acted upon. The Athenian fleet sailed back to Samos; from which place the Argive infantry, sulky with their recent defeat, demanded to be conveyed home. GROTE.

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## LATIN GENERAL PAPER—Two Hours.

### I. UNPREPARED TRANSLATION.

Omnes Germanico corporis animique virtutes, et quantas nemini cuiquam, contigisse satis constat: formam et fortitudinem egregiam; ingenium in utroque eloquentiae doctrinaeque genere praecellens; benevolentiam singularem conciliandaeque hominum gratiae ac promerendi amoris mirum et efficax studium. Formae minus congruebat gracilitas crurum, sed ea quoque paullatim repleta, assidua equi vectatione post cibum. Hostem cominus saepe percussit. Oravit causas etiam triumphalis; atque inter cetera studiorum monumenta reliquit et comoedias Graecas. Domi forisque civilis; libera ac foederata oppida sine lictoribus adibat. Sicubi clarorum virorum sepulcra cognosceret, inferias Manibus dabat. Caesorum clade Variana veteres ac dispersas reliquias uno tumulo humaturus, colligere sua manu, et comportare primus aggressus est. Obtrectatoribus etiam, qualescunque et quantacunque de causa nactus esset, lenis adeo et innoxius, ut Pisoni, decreta sua rescindenti, clientelas diu vexanti, non prius succensere in animum induxerit, quam veneficiis quoque et devotionibus impugnari se comperisset.

### II. GRAMMAR.

1. Translate and parse the words in italics:

(*a*) *Vixet* cui vitam deus aut sua dextra dedisset.

(*b*) Et Venulus dicto parens ita *farier infit.*

(*c*) Cetera, qua *iusso,* mecum manus inferat arma.

(*d*) Nec hoc sine nomine letum
Per gentes erit aut famam *patieris inultae.*

2. Translate with notes on syntax:

(*a*) Iustitiaene prius mirer belline laborum?

(*b*) Et vellem et fuerat melius.
(*c*) Oculos deiecta decoros.
(*d*) Docte sermones utriusque linguae.

3. Scan, marking the quantities and naming the measure :
(*a*) Cur me querelis exanimas tuis ?
(*b*) Abstulit clarum cita mors Achillem.
(*c*) Sublimi feriam sidera vertice.
(*d*) Tempora populea fertur vinxisse corona.

### III. History and Antiquities.

1. Explain the terms—*princeps*, *collegium*, *prorogatio imperii*, *legatio libera*.

2. What do you know of the institution of slavery in Rome ?

3. Give a short account of public affairs from the abdication of Sulla to the consulship of Pompey and Crassus.

4. Describe succinctly the measures projected or carried out by Julius Caesar for reconstructing the government after the defeat of the Pompeians.

## GREEK TRANSLATION—Two Hours.

1. Translate :
(*a*) Hom. *Od.* X. 513—524.
(*b*) Hom. *Od.* IX. 382—386.
What is the mood of τρυπῷ in the passage (*b*) ?

2. (*a*) Translate :
Soph. *Ajax*, 1358—1369.
(*b*) Translate and explain :
Soph. *Ajax*, 635—640.

3. (*a*) Translate *either* Herod. III. 46,
*or* Lysias, XI. 22. 11—12.
(*b*) Translate and explain, by reference to the context,
*either* Herod. III. 105,
*or* Lysias, V. 12. 69.

4. Translate Plato, *Apol.* 35 A—B.

## GREEK PROSE AND GRAMMAR—Two Hours.

I. Translate into Greek :

I would not however have you run away with a notion that the rich are knaves, or that lords are fools. They are for what I know as honest and as wise as other people. But it is a trick of our self love,[1] supposing that another has the advantage of us in one way, to strike a balance[2] by taking it for granted that he must be as much beneath us in those qualities on which we plume ourselves, and which we would appropriate almost entirely to our own use. It is hard indeed if others are raised above us not only by the gifts of fortune, but of understanding too. It is not to be credited. So if a woman is handsome, she is an idiot ; if a man is worth a million of money, he is a miser, a fellow that cannot write his own name, or a poor creature in some way, to bring him to our level.

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[1] self-love : use φίλαυτος or φιλαυτία.
[2] strike a balance : ἐξισοῦσθαι.

II. (1) Parse *any five* of the following words explaining the dialectical form if necessary—*κατεβήσετο, ὀρώρει, ἔρχαται, οὐταμέναι, κέκλυτε, κακκείοντες, ἀδεῖν, ἀποδρῆναι, ἐνήλλακται.*

(2) Translate *any four* of the following sentences, with notes on points of syntax :

(*a*) *οὐδὲ γὰρ οὐδέ τις ἄλλος ἀνὴρ τάδε φάρμακ' ἀνέτλη,*
*ὅς κε πίῃ καὶ πρῶτον ἀμείψεται ἕρκος ὀδόντων.* *Odyssey* X. 327.

(*b*) *οὐκέτ' ἄνδρα μὴ τόνδ' ἴδητε.* Soph. *Ajax*, 400.

(*c*) *ὁ δὲ ὅκως ἀπελαυνόμενος ἔλθοι ἐς ἄλλην οἰκίην, ἀπηλαύνετ' ἂν καὶ ἀπὸ ταύτης.* Herod. III. 51.

(*d*) ... *ὃς ἐτόλμησε τὰ μὲν ἔξαρνος γενέσθαι, τὰ δὲ τελευτῶν ὁμολογήσας ἔχειν.* Lysias, XVI. (32) § 20, ad init.

(*e*) *εἰ γὰρ ὤφελον οἷοί τ' εἶναι οἱ πολλοὶ τὰ μέγιστα κακὰ ἐργάζεσθαι, ἵνα οἷοί τ' ἦσαν καὶ ἀγαθὰ τὰ μέγιστα.* Plato, *Crito*, 44 d

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## GREEK GENERAL PAPER—Two Hours.

### I. Unprepared Translation.

(*Andocides, on his trial for impiety, has been taunted with trading.*)

*Κατηγόρησαν δέ μου καὶ περὶ τῶν ναυκληριῶν καὶ περὶ τῆς ἐμπορίας, ὡς ἄρα οἱ θεοὶ διὰ τοῦτό με ἐκ τῶν κινδύνων σώσαιεν, ἵνα ἐλθὼν δεῦρο, ὡς ἔοικεν, ὑπὸ Κηφισίου ἀπολοίμην. ἐγὼ δὲ ὦ Ἀθηναῖοι οὐκ ἀξιῶ τοὺς θεοὺς τοιαύτην γνώμην ἔχειν, ὥστ' εἰ ἐνόμιζον ὑπ' ἐμοῦ ἀδικεῖσθαι, λαμβάνοντάς με ἐν τοῖς μεγίστοις κινδύνοις μὴ τιμωρεῖσθαι· τίς γὰρ κίνδυνος μείζων ἀνθρώποις ἢ χειμῶνος ὥρᾳ πλεῖν τὴν θάλατταν ; ἐν οἷς ἔχοντες μὲν τὸ σῶμα τοὐμόν, κρατοῦντες δὲ τοῦ βίου καὶ τῆς οὐσίας τῆς ἐμῆς, εἶτα ἔσῳζον ; οὐκ ἐξῆν αὐτοῖς ποιῆσαι μηδὲ ταφῆς τὸ σῶμα ἀξιωθῆναι ; ἔτι δὲ πολέμου γενομένου καὶ τριήρων ἀεὶ κατὰ θάλατταν οὐσῶν καὶ ληστῶν, ὑφ' ὧν πολλοὶ ληφθέντες, ἀπολέσαντες τὰ ὄντα, δουλεύοντες τὸν βίον διετέλεσαν, οὔσης δὲ χώρας βαρβάρου, εἰς ἣν πολλοὶ ἤδη ἐκπεσόντες αἰκίαις ταῖς μεγίσταις περιέπεσον καὶ τὰ σφέτερα αὐτῶν σώματα αἰκισθέντες ἀπέθανον,—εἶτα οἱ μὲν θεοὶ ἐκ τοσούτων κινδύνων ἔσῳζόν με, σφῶν δὲ αὐτῶν προὐστήσαντο τιμωρὸν γενέσθαι Κηφίσιον τὸν πονηρότατον Ἀθηναίων.*

### II. History and Literature.

(Two *historical and* two *literary questions should be attempted.*)

1. Illustrate Homer's notions of geography.

2. What is the 'true climax' of *Ajax*?

3. What evidences of personal research have you noticed in Herodotus?

4. Illustrate from Lysias the legal position *either* of slaves *or* of aliens *or* of orphans at Athens.

5. Give a short account of the establishment and expulsion of the Thirty Tyrants.

6. How far was the condemnation of Socrates due to political antipathy?

7. Illustrate the interference of Persia in Greek affairs after Aegospotami.

8. Give a short account of *any three* of the following: Ephialtes, Antiphon, Anaxagoras, Conon, Isocrates, Menander.

## ENGLISH LANGUAGE AND LITERATURE.

### PAPER A—Three Hours.

For Students of Session 1900-1901.

(*Answer* NINE *questions, taking* ONE *from* A, ONE *from* B, FIVE *from* C, *and* TWO *from* D.)

### A. Composition.

1. Discuss the thesis, "Style should not be too prominent."

2. Give some account of the various sonnet forms in English.

3. In 1824 Leigh Hunt wrote, "The growth of science and the re-appearance of a more poetical kind of poetry have accompanied one another." Is there any incompatibility between Science and Poetry?

### B. Philology.

4. Narrate the story of the first introduction of Teutonic dialects into this country.

5. Why did Norman-French fail to become permanently established in England.

6. Take either of the following passages and identify the dialect, giving its main characteristics and its geographical limits:

(*a*) And þe mare þat twa to-gyder lufes,
Als a man and his wife ofte proues,
Þe mare sorow and murnyng
By-houes be at þair departyng.

(*b*) Þaȝles zomþyng ich wylle zigge: ase ich may. Ich yzeȝ god, ac be ane sseawere ine ssede.

### C. Elizabethan Literature.

7. Give a brief account of the origins of the English drama.

8. Compare the dramatic art of *Tamburlaine* with that of *Dr. Faustus*.

9. Contrast the author of *Love's Labour's Lost* with the author of the *Alchemist* as a topical satirist.

10. Write a brief estimate of Falstaff, *or* of Shakespeare's Cleopatra.

11. Trace in outline the growth of English prose from Ascham to Ben Jonson.

12. Estimate the critical value and the literary style of Sidney's *Apologie*.

13. Write an account of either (i) Sir Walter Raleigh as a War Correspondent, or (ii) Spenser as a Pupil of Plato.

14. Tennyson said that three repartees in Shakespeare always brought tears to his eyes. They are these:

(i) "So young, my lord, and true."
(ii) "I'll swear for 'em."
(iii) "Hang there like fruit, my soul,
Till the tree die!"

By whom, to whom, and in what circumstances were they spoken? Explain their dramatic value.

### D. "THE WINTER'S TALE" AND ESSAYISTS.

15. Describe Shakespeare's elaboration of the story used in *The Winter's Tale*, and discuss the title of the play.

16. Hazlitt, referring to a performance that he had witnessed, says, "'The Winter's Tale' is one of the best acting of our author's plays." Criticise this dictum.

17. Explain, with reference to the context:

(*a*) Affection! thy intention stabs the centre:
Thou dost make possible things not so held,
Communicat'st with dreams; how can this be?—
With what's unreal thou co-active art,
And fellow'st nothing: then, 'tis very credent
Thou mayst co-join with something; and thou dost,
And that beyond commission, and I find it,
And that to the infection of my brains
And hardening of my brows.

(*b*) The prince, your son, with mere conceit and fear
Of the queen's speed, is gone.

(*c*) But, to make an end of the ship, to see how the sea flap-dragoned it.

(*d*) Methinks I play as I have seen them do
In Whitsun pastorals.

(*e*) A lie becomes none but tradesmen, and they often give us soldiers the lie: but we pay them for it with stamped coin, not stabbing steel; therefore, they do not give us the lie.

(*f*) . . . that rare Italian master, Julio Romano, who, had he himself eternity and could put breath into his work, would beguile Nature of her custom, so perfectly is he her ape.

18. Write a short history of the English Essay from Bacon to Addison.

## PAPER B—THREE HOURS.

### FOR STUDENTS OF SESSION 1900-1901.

(*Answer* NINE *questions, taking* ONE *from* A, ONE *from* B, FIVE *from* C, *and* TWO *from* D.)

A. COMPOSITION.—Same as in Paper A.

B. PHILOLOGY.—Same as in Paper A.

### C. IMAGINATIVE LITERATURE OF WORDSWORTH'S AGE.

7. Give brief accounts of six of the following with the authors names:

(*a*) The pains of sleep; (*b*) To Autumn; (*c*) The Recollection; (*d*) The Violet in her greenwood bower; (*e*) The Brothers; (*f*) On this day I complete my thirty-sixth year; (*g*) One word is too often profaned; (*h*) The Fountain; (*i*) Cadzow Castle; (*j*) Frost at midnight.

8. Characterize Hazlitt as a critic.

9. "The distinguishing sentiment of Wordsworth's poems is that they, more than any others, have power to revive for each particular man the associations of his youth." Discuss.

10. Illustrate Shelley's *or* Byron's political sympathies from his poems.

11. Write notes on two of the following:

(*a*) Keats's mythology; (*b*) Coleridge's opium habit and its effect on his poetry; (*c*) Wordsworth's love poems; (*d*) Scott's use of the Christabel metre; (*e*) Shelley's pantheism.

12. Give a critical account of two of the following: Dion; Beppo; Lamia; Alastor.

13. Can you trace in the literature of the eighteenth century, properly so called, any indications of the forthcoming Romantic revival?

14. Criticise the presentation of women given by Scott in his narrative poems.

### D. "TEMPEST" AND "GULLIVER'S TRAVELS."

15. If we had no other evidence, would the matter and style of the *Tempest* enable us approximately to fix the date of its composition?

16. What grounds are there for regarding Caliban as a portrait of aboriginal man?

17. Discuss the management of dramatic time in the *Tempest*. Explain why Shakespeare should have made a distinction between the real and the apparent time required for the action of the play.

18. Emend if necessary and explain with reference to the contex :

(*a*) My prime request
(Which I do last pronounce) is (O you wonder)
If you be Mayd, or no?

(*b*) I' th' Commonwealth I would (by contraries)
Execute all things.

(*c*) for I
Have given you here a thrid of mine owne life
Or that for which I live.

(*d*) which now we finde
Each putter out of five for one, will bring us
Good warrant of.

(*e*) And our little life
Is rounded with a sleepe :
(*f*) Sweet Lord, you play me false.

19. Detail the different points of view from which Swift considers mankind in the four books of *Gulliver's Travels.* In what way are they connected with each other ?

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## FRENCH LANGUAGE AND LITERATURE.

### FIRST PAPER—THREE HOURS.

1. Traduire en anglais le passage suivant :

Dans ce temple dédié au culte des grands hommes et que remplit le souvenir de tant de morts augustes, devant les représentants des puissances étrangères, au milieu des élus de la nation, des grands corps de l'État, des délégués les plus illustres de la science, des lettres et des arts, et de la jeunesse des écoles, je songe à ces fêtes antiques où tout un peuple, frémissant d'une sainte émotion, élevait au rang des dieux ceux de ses fils qui lui avaient donné le plus de puissance et de gloire.

Nul n'était plus digne que Victor Hugo de ces honneurs héroïques.

Poète, sa carrière n'est qu'une longue moisson de lauriers ; citoyen, sa vie n'est qu'une longue lutte pour la liberté et le droit.

A dix-huit ans, il publie son premier livre et, pendant trois quarts de siècle, il étonne le monde par l'éclat de ses productions.

Son œuvre est immense ; c'est une magie.

Elle embrasse tous les genres : ode et satire, fable et chanson, drame et épopée, histoire et voyage, philosophie et critique.

Elle est diverse et puissante comme la création elle-même.

En elle la patrie crie ses enthousiasmes, ses révoltes et ses espérances ; l'humanité pleure et chante ; en elle la nature se reflète comme en un lac sans ride.

Victor Hugo a la force et le charme, l'ironie et la grâce, le rire et les pleurs. Il est doux et terrible. Il célèbre les héros et les dieux ; mais c'est sur les déshérités, sur les humbles et les faibles, sur les enfants qu'il se penche avec le plus de tendresse et d'amour.

Son cœur bat de la vie universelle, de la vie orageuse des peuples et de la vie calme du foyer. Homme, il a senti et exprimé toutes les passions des hommes. Aussi nul ne remua plus profondément l'âme des foules.

Batailleur infatigable, c'est à coups de chefs-d'œuvre qu'il combat pour sa cause.

Chef d'école, il crée une forme nouvelle de roman et de drame. Il fouille en pleine vie et fait jaillir des contrastes sociaux et moraux les émotions les plus poignantes.

A sa suite, nous gravissons les plus fiers sommets où peut atteindre l'âme humaine et nous plongeons jusqu'aux plus profonds abîmes où elle peut descendre.

Enchanteur à la parole dorée, il donne au mot, au vers, au rythme une sonorité, un éclat et un essor inconnus.

Il est épique comme Homère et tragique comme Eschyle. Il a

l'harmonie de Pindare, la fraicheur de Théocrite et la verve de Juvénal. Il a de plus, car il est bien de sa race, l'imagination chevaleresque et tendre de ces bardes celtiques, qui donnèrent au monde les récits merveilleux qui ont bercé son rêve de gloire et d'amour.

George Leygues.

2. Translate into French :

### THE TWO PATHS.

Ask yourselves what is the leading motive which actuates you while you are at work. I do not ask what your leading motive is for working —that is a different thing; you may have families to support—parents to help—brides to win; you may have all these, or other such sacred and pre-eminent motives, to press the morning's labour and prompt the twilight thought. But when you are fairly *at* the work, what is the motive which tells upon every touch of it? If it is the love of that which your work represents—if, being a landscape painter, it is love of hills and trees that moves you—if, being a figure painter, it is love of human beauty and human soul that moves you—if, being a flower or animal painter, it is love, and wonder, and delight in petal and in limb that moves you, then the spirit is upon you, and the earth is yours, and the fulness thereof. But if, on the other hand, it is petty self-complacency in your own skill, trust in precepts and laws, hope for academical or popular approbation, or avarice of wealth—it is quite possible that by steady industry, or even by fortunate chance, you may win the applause, the position, the fortune that you desire: but one touch of true art you will never lay on canvas or on stone as long as you live.

Ruskin.

## SECOND PAPER—Three Hours.

### Grammar.

(*Answer* ONE *question only of Group* A *and* TWO *questions of Group* B. *N.B.—Question* 1 *of Group* B *is compulsory.*)

### Group A.

1. Explain the internal and external development of the French Language during the period of Old French (Ancien français).

2. The history of the French Language in Great Britain.

### Group B.

1. Scan the following lines and comment on the versification of the passage generally :

DOÑA SOL.

Mon duc, rien qu'un moment !
Le temps de respirer et de voir seulement.
Tout s'est éteint, flambeaux et musique de fête.
Rien que la nuit et nous. Félicité parfaite !
Dis, ne le crois-tu pas ? sur nous, tout en dormant,
La nature à demi veille amoureusement.
Pas un nuage au ciel. Tout, comme nous, repose.
Viens, respire avec moi l'air embaumé de rose !
Regarde. Plus de feux, plus de bruit. Tout se tait.

La lune tout à l'heure à l'horizon montait
Tandis que tu parlais, sa lumière qui tremble
Et ta voix, toutes deux m'allaient au cœur ensemble,
Je me sentais joyeuse et calme, ô mon amant,
Et j'aurais bien voulu mourir en ce moment !

HERNANI.

Ah ! qui n'oublierait pas tout à cette voix céleste ?
Ta parole est un chant où rien d'humain ne reste.
Et, comme un voyageur, sur un fleuve emporté,
Qui glisse sur les eaux par un beau soir d'été
Et voit fuir sous ses yeux mille plaines fleuries,
Ma pensée entraînée erre en tes rêveries !

*Hernani*, V. 3.

2. A grammatical commentary on the above text of V. Hugo.
3. Explain fully the use of *ne*.
4. The subjunctive mood in English and in French.

### LITERATURE.

Traiter *l'un* des sujets suivants :

(*a*) Quelles sont les idées qui, dans la préface de Cromwell, soulevèrent le plus de discussions parmi les contemporains de V. Hugo. Expliquer pourquoi.

(*b*) Comparer le drame de Victor Hugo au drame de Shakespeare.

(*c*) L'amour chez les Romantiques et chez les Classiques français.

## GERMAN LANGUAGE AND LITERATURE.

### FIRST PAPER—THREE HOURS.

1. Translate into German :

(*a*) Pitt had two audiences on two successive days. What passed at the first interview led him to expect that the negotiation would be brought to a satisfactory close ; but on the morrow he found the King less complying. The best account, indeed the only trustworthy account of the conference, is that which was taken from Pitt's own mouth by Lord Hardwicke. It appears that Pitt strongly represented the importance of conciliating those chiefs of the Whig party who had been so unhappy as to incur the royal displeasure. They had, he said, been the most constant friends of the House of Hanover. Their power was great ; they had been long versed in public business. If they were to be under sentence of exclusion, a solid administration could not be formed.

(*b*) *Acres.* By my valour ! then, Sir, forty yards is a good distance. Odds levels and aims ! I say it is a good distance.

*Sir L.* Is it for muskets or small field-pieces ? Upon my conscience, you must leave those things to me. Stay now ; I'll show you. There now, that is a very pretty distance.

*Acres.* Zounds ! we might as well fight in a sentry box ! I tell you, Sir, the farther he is off, the cooler I shall aim.

*Sir L.* Faith! then I suppose you would aim at him best of all if he was out of sight.

*Acres.* No, but I should think forty yards—

*Sir L.* Pooh! Nonsense! three or four feet between the mouths of your pistols is as good as a mile.

*Acres.* Odds bullets, no! there is no merit in killing him so near.

2. Write an essay in German on *one* of the following subjects:

(*a*) Grossbritannien; eine Charakteristik von Land und Leuten.

(*b*) Milton und Klopstock: eine Parallele.

3. Show by means of a map the districts where the Bavarian, Low German, Suabian, and Alemanic dialects are spoken.

### Grammar and Philology.

(*Answer* EIGHT *of the following questions.*)

1. Have foreign substantives, in passing into German, retained their original gender? Give examples.

2. Classify the German genders according to derivation.

3. Explain the presence of the letters italicised in the following words: drei*ss*ig, is*t*, selb*st*, jeman*d*, *b*leiben, *fr*essen, halbe*r*, thu*t*, nicht*s*, meine*t*willen.

4. Point out the peculiarities in the following sentences: (*a*) Und schnell war ihre Spur verloren, sobald das Mädchen Abschied nahm; (*b*) sie war der Verbrecher; (*c*) mein Lebtag denke ich daran; (*d*) keine Luft von keiner Seite; (*e*) Die Herrschaft sind ausgegangen.

5. When is *s* used in the formation of the plural of nouns?

6. Illustrate the chief points of difference between the English and German order of words.

7. Account historically for the presence of Umlaut in the comparative and superlative degrees.

8. Show how the declension of proper nouns at present differs from the usage of Lessing and Goethe.

9. Compare the endings of adjectives in German and English.

10. What changes have the vowels undergone since the twelfth century?

### SECOND PAPER—Three Hours.

A. Translate into English:

1. (*a*) Du glänzteſt bei der Väter Freudenfeſte,
Erheiterteſt die ernſten Gäſte,
Wenn einer dich dem andern zugebracht.
Der vielen Bilder künſtlich reiche Pracht,
Des Trinkers Pflicht, ſie reimweis zu erklären,
Auf einen Zug die Höhlung auszuleeren,
Erinnert mich an manche Jugendnacht.

Faust.

(*b*) Mein Vater war ein dunkler Ehrenmann,
Der über die Natur und ihre heil'gen Kreiſe,
In Redlichkeit, jedoch auf ſeine Weiſe,
Mit grillenhafter Mühe ſann,
Der, in Geſellſchaft von Adepten,
Sich in die ſchwarze Küche ſchloß
Und, nach unendlichen Recepten,
Das Widrige zuſammengoß.
Da ward ein rother Leu, ein kühner Freier,
Im lauen Bad der Lilie vermählt
Und beide dann, mit offnem Flammenfeuer,
Aus einem Brautgemach ins andere gequält.
Faust.

Explain both passages.

2. (*a*) Freilich iſt der Hang zu dieſer üppigen Prahlerei mit leidigen Geſchicklichkeiten, die durch den Werth ihrer Gegenſtände nicht geadelt werden, zu natürlich, als daß nicht auch die Griechen ihren Pauſon, ihren Pyreicus ſollten gehabt haben. Sie hatten ſie; aber ſie ließen ihnen ſtrenge Gerechtigkeit widerfahren. Pauſon, der ſich noch unter dem Schönen der gemeinen Natur hielt, deſſen niedriger Geſchmack das Fehlerhafte und Häßliche an der menſchlichen Bildung am liebſten ausdrückte, lebte in der verächtlichſten Armuth. Laokoon.

(*b*) So Etwas zu ſagen, braucht es wahrlich wenig Unterſcheidungskraft. Ich will indeß mich weder des Statius noch des Valerius in dieſem Falle annehmen, ſondern nur eine allgemeine Anmerkung machen. Die Götter und geiſtigen Weſen, wie ſie der Künſtler vorſtellt, ſind nicht völlig ebendieſelben, welche der Dichter braucht. Bei dem Künſtler ſind ſie perſonifirte Abſtracta, die beſtändig die ähnliche Charakteriſirung behalten müſſen, wenn ſie erkenntlich ſein ſollen. Bei dem Dichter hingegen ſind ſie wirkliche handelnde Weſen, die über ihren allgemeinen Charakter noch andere Eigenſchaften und Affecten haben, welche nach Gelegenheit der Umſtände vor jenen vorſtechen können. Laokoon.

3. Eine todte Stille herrſchte jetzt in Brüſſel, die nur zuweilen das ungewohnte Geräuſch der Waffen unterbrach Der Herzog war wenige Stunden in der Stadt, als ſich ſeine

Begleiter, gleich losgelaſſenen Spürhunden, nach allen Gegenden zerſtreuten. Ueberall fremde Geſichter, menſchenleere Straßen, alle Häuſer verriegelt, alle Spiele eingeſtellt, alle öffentlichen Plätze verlaſſen, die ganze Reſidenz wie eine Landſchaft, welche die Peſt hinter ſich liegen ließ. Ohne, wie ſonſt, geſprächig beiſammen zu verweilen, eilten Bekannte an Bekannten vorüber; man förderte ſeine Schritte, ſobald ein Spanier in den Straßen erſchien. Jedes Geräuſch jagte Schrecken ein, als pochte ſchon ein Gerichtsdiener an der Pforte; der Adel hielt ſich bang erwartend in ſeinen Häuſern; man vermied, ſich öffentlich zu zeigen, um dem Gedächtniß des neuen Statthalters nicht zu Hilfe zu kommen. Beide Nationen ſchienen ihren Charakter umgetauſcht zu haben, der Spanier war jetzt der Redſelige und der Brabanter der Stumme; Mißtrauen und Furcht hatten den Geiſt des Muthwillens und der Fröhlichkeit verſcheucht, eine gezwungene Gravität ſogar das Mienenſpiel gebunden. Jede nächſte Minute fürchtete man den niederfallenden Streich.

SCHILLER.

N.B.—*Importance is attached to the* STYLE *of the translation, in questions two and three.*

**B. 1. Comment on, but do not translate:**

(*a*) Sie ließ mich zwar in Sanct Andreas' Nacht
Den künftigen Liebſten leiblich ſehen.
Mir zeigte ſie ihn im Kryſtall.

(*b*) Heiße Magiſter, heiße Doktor gar.

(*c*) Und dies geheimnißvolle Buch
Von Noſtradamus eigner Hand.

**2. Write notes on the following words:**

Pergamen, ergetzen, Mondenſchein, Bruderſphären, Bronnen, Trödel, Tand, Hochgelahrter, Venerabile, Latwergen, Famulus.

**C. Give an idiomatic translation of the following sentences:**

Ich ſagte Ihnen ja; er iſt doch nicht durchgegangen; die Schnurre fuhr mir ſo heraus; reinen Mund halten; das Kind mit dem Bade ausſchütten; wir ſind übel daran; eine vierfache Schnur hält deſto beſſer; er hat zu viel aufs Spiel geſetzt; unter vier Augen; zum Beſten geben: Grillen fangen.

D. LITERATURE. *Answer* EIGHT *of the following questions.*

1. State reasons for the decline of poetry after the first classical period.

2. Give a *brief* account of German literature in the sixteenth century.

3. What were the different stages of Wieland's development? Give an analysis either of the *Oberon*, or the *Abderiten.*

4. Lessing, when writing his chief works, had definite aims in view. Justify the statement.

5. What did Klopstock do for German literature? Why is the *Messias* read so little at the present time?

6. Give the plot, and analyse the merits of one of the following: *Minna von Barnhelm*, or *Egmont.*

7. Narrate the story of the three rings in *Nathan der Weise.* What is its significance?

8. What was the state of German literature in the first half of the eighteenth century?

9. In what respects was Goethe's work influenced, (1) by his residence in Strassburg, (2) by his journey to Italy, (3) by Schiller's friendship?

10. Contrast Klopstock and Wieland, Lessing and Herder, Goethe and Schiller.

11. Estimate the influence of English literature upon that of Germany between 1750-1780.

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## *B.—DEPARTMENT OF MENTAL PHILOSOPHY.*

### LOGIC—THREE HOURS.

(*Not more than* TEN *questions to be attempted.*)

1. Distinguish Deductive from Inductive Logic. What is meant by the *formal* validity of an argument? Can a formal inference ever lead to the establishment of a new truth?

2. (*a*) What is the relation between intension (or connotation) and extension (or denotation)?

(*b*) Give, where possible, the converse and also the contradictory of the following propositions:

(1) No one can be rich and happy unless he is also temperate and prudent, and not always then.

(2) Virtuous people alone are happy.

(3) Axioms are self-evident.

3. (*a*) Prove from the general rules of the syllogism that from two particular premisses nothing can be inferred.

(*b*) Test the validity of the following arguments, pointing out the fallacy, where fallacious:

(1) The express train alone does not stop at this station, and as the last train did not stop it must have been the express train.

(2) This war is popular, and therefore just.

(3) The infliction of pain is sometimes justifiable, for a just punishment always involves pain.

4. (*a*) In what figure alone can an A conclusion be obtained, and why?

(*b*) What can you tell about a valid syllogism if you know (1) that only the middle term is distributed; (2) that only the middle and minor terms are distributed; (3) that all three terms are distributed.

5. State and discuss the different views that have been taken of the Hypothetical Judgment and of its relation to the Categorical.

6. Explain fully the following terms: (1) Differentia, (2) Division by Dichotomy, (3) Fallacy of Accident, (4) Method of Concomitant Variations, (5) Uniformity of Nature, (6) Imperfect Induction.

7. (*a*) State briefly Mill's view of the function and value of the Syllogism.

(*b*) Criticise his view that fundamentally all reasoning is from particulars to particulars.

8. (*a*) What is the Method of Agreement? What is its "characteristic imperfection" according to Mill? How is this difficulty to be obviated?

(*b*) What are the conditions essential to experiment?

9. What are the defects of the Introspective Method, and how far can these defects be remedied by the other Methods?

10. Distinguish between Cognition, Feeling, and Will. Are all three ultimate in the mental life?

11. On what grounds has it been held that there are unconscious states of mind? How may the facts appealed to be explained?

12. Analyse the visual perception (*a*) of distance, (*b*) of solidity.

13. Critically examine the statement that the two fundamental laws of Association are the law of Contiguity and the law of Similarity.

14. (*a*) How is Voluntary Movement possible?

(*b*) Explain the effects of Attention.

15. State Descartes' Ontological argument for the existence of God. Is this his sole argument for such existence?

16. On what grounds does Descartes base the belief in the independent existence of a material universe?

17. What is the contribution to Psychology made by Berkeley in his *New Theory of Vision*?

18. How do Descartes and Berkeley distinguish sense-impressions from ideas of the imagination? Give a psychological analysis of the distinction.

19. Discuss Berkeley's views on Causality. Indicate their connection with his Theory of Vision.

20. What is Berkeley's doctrine of abstract ideas, and what arguments does he derive therefrom against the existence of material substance?

21. (*a*) Give an exact account of the Eleatic doctrine as expounded by Parmenides.

(*b*) Show how the consequences of the Eleatic doctrine determined the fundamental points in the theories of Anaxagoras and the Atomists.

22. How did Plato try to connect his Ideal world with the world of sense?

23. What is the philosophical importance of Socrates?

## MORAL PHILOSOPHY—THREE HOURS.

(*All Candidates for the Degree are required to answer not less than* TWO *nor more than* THREE *questions in Section* A, *and not less than* SIX *nor more than* SEVEN *in Section* B.)

### SECTION A.

1. Estimate the value of the analogy drawn by Plato between the individual and the state.

2. What does Plato mean by 'Justice'? Criticise his theory of it.

3. What are the characteristics of Plato's 'Oligarchic State'? Give and examine his account of its rise and decline.

4. In what respects does Plato in his *Republic* propose to modify the Greek State?

5. Explain and examine Plato's Theory of Ideas.

### SECTION B.

1. How far does Plato anticipate Aristotle's view of the moral end?

2. Give and discuss Aristotle's view of Virtue, and especially of the significance of Habit.

3. What do you understand by the Freedom of the Will? Distinguish carefully between freedom and indeterminism.

4. What are the chief characteristics of a moral ideal? How far does the Hedonistic end embody them?

5. "Every man is naturally moral." "No man is naturally moral." Discuss these statements.

6. Compare the Epicurean view of the moral life with Mill's.

7. Contrast the views of Hume and Kant as to the function of Reason in the moral life.

8. Estimate the value of the Intuitional Method in Ethics. How far is morality capable of scientific treatment?

9. Distinguish carefully between the ideas of Mechanism and Organism, and indicate their significance in a theory of moral and social life.

10. Give and criticise Kant's conception of Duty. Can "self-sacrifice" be the moral end?

## POLITICAL ECONOMY—THREE HOURS.

(*Only* EIGHT *questions to be attempted;* SIX *from Section* I. *and* TWO *from Section* II.)

### SECTION I.

1. State some fundamental conceptions upon which various definitions of Capital have been based.

2. "The theory of Consumption is the scientific basis of Economics." Discuss this.

3. How did Malthus state the problem of population? How would you state it to-day?

4. Illustrate the importance of the element of Time in economic theory. What place does it take in the theory of Value?

5. If articles of similar quality are sold at one price in Paisley Road and at a higher price in Buchanan Street, is the higher rent of the Buchanan Street shop any economic reason for the higher price?

6. "Most men earn just about what they are worth." How do you translate or justify these words?

7. What is the Law of Substitution? How does it work as regards the Employer?

8. How does a rise in the value of agricultural produce affect the value of poor lands relatively to rich?

9. "There never was a time when the working man was so well off as now." Examine this statement.

10. Give some of the economic aspects of the "Ca' Canny" policy.

11. In what respects is Overproduction possible?

### Section II.

12. What is Inconvertible Paper money? Indicate its defects.

13. What are the principal functions of Banks?

14. Compare the provisions of the Bank Act of 1844 with the provisions of any other great banking system.

15. "Others take advantage of our Free Trade policy and give us nothing in return. They strike us with their tariffs. Let us retaliate." Examine.

16. If "imports pay for exports," how do you explain the prominent feature in English imports and exports?

## EDUCATION.

### FIRST PAPER—Three Hours.

1. Expound as from Aristotle and Quintilian the place and function assigned by the ancients to Literature-Study.

2. Show how the Greek identification of the man with the citizen determined Education.

3. Explain contrastingly the Lockian and Herbartian conceptions of mind-activity.

4. Give the substance of Locke's teaching on
   (*a*) Memory and Memory training,
   (*b*) Education to courage,
   (*c*) Manual Arts,
   (*d*) Travel.

5. Summarise Ascham's explanation of "the seven plain notes to choose a good wit in a child for learning."

6. Trace through the *Émile* Rousseau's conception of the work of Education as mainly negative.

7. Explain with illustrations Spencer's Principles of Intellectual Education.

8. Explain the following, giving the context in each case:

(*a*) From *The Scholemaster*,

(1) Three excellent praises amongst the noble gentlemen of the old Persians.

(2) Love is fitter than fear, gentleness better than beating.

(*b*) From *Émile*,

(1) Children must be told the bare truth.

(2) The manner of forming ideas is what gives its characteristic to the human mind.

(*c*) From Spencer's *Education*,

(1) A measure of value is the first requisite.

(2) The function of books is supplementary.

## SECOND PAPER—THREE HOURS.

1. Give an account of the development of the idea of personality in the child, and indicate what share the Educator may safely take in the process.

2. Explain briefly the following terms: (*a*) instinct, (*b*) the socius, (*c*) the projective stage, (*d*) the strongest motive, (*e*) accommodation.

3. The nature of Attention; its form; its physiological basis; its relation to interest.

4. The place of Imagination in Education with special reference to (*a*) purposive action, (*b*) ideals, (*c*) intellectual apprehension.

5. Mark off clearly the limits within which the Educator can train the child (*a*) in respect of what is sometimes called "natural capacity," and (*b*) in respect of knowledge.

6. Distinguish between the two great types of Universities; and account for the peculiarities of Bologna University both as to curriculum and government.

7. Define the place of Analogy as a mode of Illustration. Give examples of its use in teaching, and indicate the limits within which it may be legitimately applied.

8. Make a psychological analysis of the typical errors made in dictation; and show what deductions may be fairly drawn from worked dictation exercises as to (*a*) the nature of the pupil in general, and (*b*) his state at the time of working the exercises.

## *C.—DEPARTMENT OF SCIENCE.*

# MATHEMATICS.

## FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates may obtain full marks by doing correctly about* TWO-THIRDS *of the paper*).

1. If two chords of a circle intersect, the rectangle contained by the segments of the one is equal to the rectangle contained by the segments of the other.

$A$, $B$, $C$, $D$ are four points in order on a straight line; find a point $P$ on the line such that the rectangles $PA \,.\, PB$ and $PC \,.\, PD$ may be equal.

2. Draw a circle which shall touch each of three given straight lines and state the different cases that may occur.

Two straight lines $AB$, $AC$, intersect at $A$; any point $D$ is taken on $AB$ and on $AD$ as diameter a circle is drawn. Another circle is described touching $AB$, $AC$, and the circle whose diameter is $AD$; find the locus of the point of contact of the two circles for different positions of $D$.

3. Construct an isosceles triangle having each of its base angles double of the vertical angle.

If $p$, $h$, $d$ are the sides of the regular pentagon, the regular hexagon and the regular decagon respectively, inscribed in the same circle, show that

$$p^2 = d^2 + h^2.$$

4. Define similar rectilineal figures, and prove that equiangular triangles are similar.

$ABCD$ is a quadrilateral inscribed in a circle, and from any point $S$ on the circumference perpendiculars $SE$, $SF$, $SG$, $SH$ are drawn to the sides $AB$, $BC$, $CD$, $DA$ respectively; prove $SE \,.\, SG = SF \,.\, SH$.

5. Construct a rectilineal figure similar to one and equal in area to another given rectilineal figure.

Solve by a geometrical construction the simultaneous equations

$$ax = by\ ;\ xy = c^2$$

where $a$, $b$, $c$ are positive constants.

6. Find the locus of a point from which equal tangents can be drawn to two given circles.

Find the locus of the centre of a circle which bisects the circumference of each of two given circles.

7. A transversal cuts the sides $BC$, $CA$, $AB$ of a triangle $ABC$ in the points $D$, $E$, $F$ respectively; prove that

$$\frac{BD}{DC} \cdot \frac{CE}{EA} \cdot \frac{AF}{FB} = 1.$$

If the inscribed circle of the triangle $ABC$ touches the sides $BC$, $CA$, $AB$ at $L$, $M$, $N$ respectively and if $MN$ and $BC$ are produced to cut at $P$, prove that

$$BP : AC = BL : LC.$$

8. If the polar of a point $A$ with respect to a circle pass through the point $B$ show that the polar of $B$ will pass through $A$.

$ABCD$ is a quadrilateral inscribed in a circle; the tangents at $A$ and $B$ meet at $E$, and the tangents at $C$ and $D$ meet at $F$. Show that $EF$ passes through the points of intersection of the pairs of lines

$$AC,\ BD;\ AD,\ BC.$$

9. If a variable circle touches each of two fixed circles show that the straight line joining the points of contact passes through one of two fixed points.

If $S$ is the fixed point through which the line passes show that the tangent from $S$ to the variable circle is of constant length.

10. If a straight line be perpendicular to each of two intersecting straight lines show that it is perpendicular to the plane containing the lines.

Give a geometrical construction for drawing a straight line equally inclined to three given straight lines which meet at a point but are not all in the same plane.

11. Draw on one diagram the lines whose equations are

$$5x+4y=12,\ x-2y=4,$$

and find the coordinates of their point of intersection.

If $P$ is the point of intersection of these lines and $O$ the origin of coordinates, find the equations of $OP$ and of the line through $P$ perpendicular to $OP$.

12. Determine the constant $c$ so that the straight line whose equation is $y=x+c$ may be a tangent to the circle whose equation is

$$x^2+y^2=2x+4y-3.$$

Show that there are two values of $c$, and find the coordinates of the points of contact of the tangents.

13. Draw the curve whose equation is $y=x^2-3x+2$. On the same diagram draw the straight line given by $y=2x-3$ and read off the coordinates of the points in which the curve and line intersect.

## SECOND PAPER—THREE HOURS.

(NOTE.—*Candidates may obtain full marks by doing correctly about* TWO-THIRDS *of the paper.*)

1. If $P$ denotes a rational integral function of $x$, show that the remainder when $P$ is divided by $x-a$ is the value of $P$ when $x$ is replaced by $a$.

Show that $(x+1)^6-x^6-2x-1$

is divisible by $x(x+1)(2x+1)$

and find the quotient.

2. State the chief cases in which the solution of two simultaneous equations in two unknowns (one at least of the equations being of the second degree, and neither of a higher degree than the second) can be reduced to the solution of one or more quadratic equations in one unknown.

Solve the systems

$$\text{(i)}\quad x^2=3x+6y,\ xy=5x+4y.$$
$$\text{(ii)}\quad x+y=6,\ (x^2+y^2)(x^3+y^3)=1440.$$

3. What relation must hold between $a$, $b$, $c$ if the roots of the equation

$$ax^2+bx+c=0$$

are (i) real and unequal, (ii) real and equal?

What values can $y$ take if the values of $x$ given by the equation

$$3x^2+4xy+5y^2=33$$

are real, and what values can $x$ take if the values of $y$ given by the same equation are real? Can you give a geometrical interpretation of your results?

4. State the meaning of the symbol $a^{\frac{x}{2}}$ and indicate how that meaning is obtained.

Find the product of

$$2^{\frac{1}{2}}+3^{\frac{1}{2}}+6^{\frac{1}{4}} \text{ and } 2^{\frac{1}{2}}+3^{\frac{1}{2}}-6^{\frac{1}{4}},$$

and rationalise the equation

$$(ax)^{\frac{1}{3}}+(by)^{\frac{1}{3}}=c^{\frac{2}{3}}.$$

5. If $a$ is the first term and $r$ the common ratio of a geometrical progression, find (i) the sum, (ii) the product of the first $n$ terms.

Show that if $n$ is any positive integer the sum

$$1+\frac{1}{2!}+\frac{1}{3!}+\dots+\frac{1}{n!}$$

is less than 2.

6. Prove that when $n$ is a positive integer, the $(r+1)^{\text{th}}$ term in the expansion of $(a+b)^n$ is

$$\frac{n!}{r!(n-r)!}a^{n-r}b^r.$$

If $\alpha$, $\beta$ are the roots of the equation $x^2-2ax+b^2=0$ show that

$$\left(\frac{\alpha}{\beta}\right)^n+\left(\frac{\beta}{\alpha}\right)^n=$$
$$\frac{2}{b^{2n}}\{a^{2n}+{}_{2n}C_2a^{2n-2}(a^2-b^2)+{}_{2n}C_4a^{2n-4}(a^2-b^2)^2+\dots+(a^2-b^2)^n\}.$$

7. Define a logarithm, and prove from your definition that

$$\log\left(\frac{a\sqrt{b}}{c^2}\right)=\log a+\tfrac{1}{2}\log b-2\log c.$$

Find to two places of decimals the value of $x$ which satisfies the equation

$$13^x\times 15^{x+1}=23^{x+2}.$$

8. Define $\sin x$ for all real values of $x$, and sketch the graph of the function from $x=0°$ to $x=360°$.

Construct the angles less than 360° whose sine is $\frac{1}{3}$, and find the cosine of the angles.

9. Prove by the method of projection or otherwise that

$$\cos(A+B)=\cos A\cos B-\sin A\sin B.$$

Establish the following identities :

(i) $\sin 2A = \dfrac{\tan(45^\circ + A) - \tan(45^\circ - A)}{\tan(45^\circ + A) + \tan(45^\circ - A)}$.

(ii) $8\left(1 + \cos\dfrac{\pi}{8}\right)\left(1 + \cos\dfrac{3\pi}{8}\right)\left(1 + \cos\dfrac{5\pi}{8}\right)\left(1 + \cos\dfrac{7\pi}{8}\right) = 1$.

10. With the usual notation for triangles, prove

$$\tan\tfrac{1}{2}(A - B) = \frac{a-b}{a+b}\tan\tfrac{1}{2}(A + B).$$

If $a = 1672$, $b = 1194$, $C = 36^\circ\ 50'$ find $A$, $B$, $c$.

11. Two hills, $A$ and $B$, stand on opposite sides of a lake. From the summit of $A$, which is 1360 feet high, the depression of the summit of $B$ is $16^\circ\ 42'$, and the depression of the reflection in the lake of the summit of $B$ is $50^\circ\ 12'$. Find the height of $B$.

12. Eliminate the angles $\theta$ and $\phi$ from the systems of equations

(i) $\sin\theta + \sin 2\theta = a$ ; $\cos\theta + \cos 2\theta = b$.

(ii) $\dfrac{x}{a}\cos\theta + \dfrac{y}{b}\sin\theta = 1$ ; $\dfrac{x}{a}\cos\phi + \dfrac{y}{b}\sin\phi = 1$ ; $\theta - \phi = 2\alpha$.

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## NATURAL PHILOSOPHY.

### FIRST PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than* NINE *of the following questions.*)

1. Define the varying velocity of a moving point and state what is meant when a point is said to have two simultaneous independent velocities.

A point has two simultaneous velocities represented by the diagonal $AC$ and twice the side $AB$ of a square $ABCD$; find the direction and magnitude of the velocity of the point.

2. A point is moving in a straight line, and during $t$ seconds it moves a distance of $at^2 + bt$ feet, where $a$, $b$ are constants ; assuming that this relation connects the distance with the time throughout the motion, find the acceleration at any instant.

A stone is let fall from a balloon at a height of 600 feet ; with what velocity will it strike the ground (i) if the balloon is stationary, (ii) if the balloon is moving downwards at the rate of 3 feet per second when the stone is dropped.

3. Define simple harmonic motion, and state the speed of a particle describing a simple harmonic motion, (i) when the acceleration is numerically least, (ii) when the acceleration is numerically greatest.

The displacements, referred to two rectangular axes, of a moving point are

$$x = a\cos\left(\frac{2\pi t}{3} + \frac{\pi}{3}\right), \quad y = b\cos\frac{2\pi t}{3} ;$$

show in a diagram the position, the velocity, and the acceleration of the point when $t = 3$.

4. Define *momentum*, and show how the momentum of a moving particle may be represented graphically; hence define completely the change of momentum of a particle in a given time, and the average rate of change of momentum in that time.

A particle whose mass is 10 lb. is moving in a circle of one foot radius at a uniform speed, each revolution taking 8 seconds; find (1) the change of momentum, (ii) the average rate of change of momentum in 2 seconds after passing a given point on the circle.

5. Define *work*, *energy*, and *activity*, and state how these are measured in the C.G.S. system.

Find the distance traversed in 6 seconds by a copper ball 6 centimetres in diameter, and of density 8·9, rolling from rest down a plane inclined 30° to the horizon. Calculate the translational and rotational energies.

6. Show how any number of forces acting on a plane lamina can be reduced to a single force and a single couple. What condition must be satisfied that the moment of a couple should be zero?

Forces of 6 lb., 8 lb., and 12 lb. act in order along the sides of an equilateral triangle; find a single force and a single couple that would produce equilibrium, the side of the triangle being 1 foot.

7. Define the centre of inertia of a system of particles. Show that the velocity of the centre of inertia is not affected by internal forces, and state how the motion of the centre of inertia may be determined when the external forces are known.

Two masses of 6 ounces and 8 ounces are suspended by a fine thread passing over a smooth peg, motion is allowed to continue for 4 seconds, and then a mass of 4 ounces is suddenly added to the smaller mass. Find the distance traversed by each mass and the stretching force in the string before the third mass was added; find also the velocity immediately after the addition of the mass.

8. Define *coefficient of friction* and *limiting angle of friction*; state any method of determining the coefficient.

A ladder 20 feet long leans against a vertical wall; the coefficient of friction between the ladder and the ground and between the ladder and the wall is in each case 6/10. If the greatest angle at which the ladder will rest is 45°, find the position of its centre of gravity.

9. Define isotropy of a body with respect to any physical quality and give illustrations by means of elasticity and expansion by heat.

The Young's modulus of a specimen of iron wire is $20 \times 10^8$ grammes weight per square centimetre; find the elongation when the wire is stretched by a force of $10^6$ grammes weight per square centimetre.

10. State Kepler's laws of planetary motion and state and prove Newton's deductions from them.

11. Define pressure at a point in a fluid and show that horizontal surfaces are surfaces of equal pressure.

A rectangle $ABCD$ is immersed in a liquid of density $\rho$; the side $AD$ is in the surface of the liquid and the plane of the rectangle is inclined to the horizontal at an angle of 60°. Find the total pressure-force on the rectangle, neglecting the pressure at the free surface.

12. State the principle of Archimedes. Find the conditions of equilibrium of a floating body (i) when the body is wholly immersed, (ii) when it is only partially immersed.

A prism of length $2h$ and square section of side $2a$ floats completely immersed in water with its length vertical. It is so loaded that its centre of gravity is on the axis at a distance of $\frac{1}{3}h$ from the lower end and its total weight is $W$. Find the righting moment when the prism is inclined through a small angle $\theta$ and prove that the work done in inclining the prism through a finite angle $\theta$ is $\frac{2}{3}Wh(1-\cos\theta)$.

13. Define specific gravity. The weight of a piece of cork in air is $\frac{3}{4}$ oz., the weight of a piece of lead in water is $6\frac{4}{9}$ oz., and the weight of the cork and lead together in water is 4·07 oz. Find the specific gravity of the cork.

Describe and explain the principle of Nicholson's hydrometer.

## SECOND PAPER—Three Hours.

(Note.—*Not more than* TEN *questions to be attempted.*)

1. A piece of ice at a temperature below the freezing point is placed in a room at a very high temperature. Describe the successive changes which take place in the condition of the substance.

Two pounds of water are cooled 5° C. below the freezing point and a small piece of ice is dropped in. What is the result? [Latent heat of water = 80.]

2. Define a unit of heat and the specific heat of a substance at a given temperature. Describe a method of experimentally determining the specific heat of a piece of copper or iron.

The density of water at 0° C. is ·9982 and that of ice at the same temperature is ·917. Find what increase of volume would be produced in the contents of the ice and water in the chamber of a Bunsen calorimeter by placing in the calorimeter 10 grammes of copper (sp. heat ·093) at 80° C.

3. Give an account of Andrews' experiments on the compressibility of carbonic acid gas, with a summary of his results. Define accurately the critical temperature of a gaseous substance.

4. How has the accepted theory of the nature of heat been established by experiment?

Rumford found by firing a musket with and without a bullet that the barrel was less heated when a bullet was fired than when the same amount of powder alone was used. Explain the result.

5. How has the velocity of sound in air and in water been experimentally determined?

Taking the pressure of the atmosphere as that due to 76 cms. of mercury of density 13·6, and 1 litre of dry air at 0° C. as 1·293 gramme, calculate the Newtonian velocity of sound in air at 10° C.

6. How does a noise differ from a musical note? On what does (1) the loudness, (2) the pitch, (3) the quality of a musical note depend? How are the first two measured?

"The loudness of a note is affected by the density of the air in which the note is produced, but not by the density of that in which it is heard." Give any dynamical reason why this should be the case.

7. Describe the mode of vibration of the air in an organ-pipe, describing carefully what takes place (1) at the closed end, (2) at the open end of an organ-pipe.

Calculate the pitches of the fundamental (or gravest) notes emitted by two pipes, one closed and 18 inches long, the other open and 2 feet long. What is the name of the interval between the two notes? [Velocity of sound 1140 feet per second.]

8. How are echoes produced? When a sound is produced between two parallel walls some distance apart, a succession of echoes is produced. Explain this, and account for the limited number of audible echoes.

Compare this case of production of multiple echoes with the corresponding case of multiple images in optics. What echoes would follow a sound produced in a right angle between two meeting vertical walls, and from what points would these echoes seem to come in succession to an ear at the place at which the sound is generated?

9. State the elementary laws of reflection and refraction of light, and show how they may be experimentally verified.

Both sides of a shop window are lined with mirror glass, and the result is a trail of images, on each side, of the objects in the window. If the mirrors on the two sides be parallel and an object be 2 feet from one mirror and 5 feet from the other, find the distances between the successive images on either side.

10. Describe carefully one method of determining the velocity of light, explaining how the result is to be deduced from the observations made.

11. Describe the arrangement necessary for producing a pure spectrum of a source of white light.

Show that for a prism of finite angle $A$ the index of refraction of light which suffers minimum deviation $D$ is given by

$$\mu = \frac{\sin \frac{1}{2}(A+D)}{\sin \frac{1}{2}A}.$$

12. Give an explanation of the dark lines of the solar spectrum. How has the motion of a source of light in the direction of the line of sight been measured by means of the spectroscope?

13. Explain the formation of an image by a lens. Define conjugate focal distances and principal focal distance of a lens, and show how to find the relation connecting them.

Two positions of a lens are possible for given positions of the image and the object. Show that if $l$ be the distance between the object and the image, $d$ that between the two positions of the lens, the focal length of the lens is $(l^2 - d^2)/4l$.

14. Explain clearly the action of any form of electric condenser, bringing out as distinctly as possible why the insulated plate of the condenser can be charged by an electric machine turning at a given rate with so much greater a charge than if the plate were insulated at a distance from all other conductors.

15. Give some account of Faraday's theory of dielectric polarization. Describe experiments to show that the dielectric between the plates of a condenser is in a state of internal strain which can only be removed by the connection of the conducting plates.

16. How can a current of electricity be produced? Describe the various effects which a current ordinarily produces, and explain how they can be shown experimentally.

Which of these is used for the fundamental comparison of currents and how?

A battery of 10 voltaic cells is joined in series. The electromotive force of each cell is $2 \times 10^8$ C.G.S. units of e.m.f. and the internal resistance of each is $18^8$ C.G.S. units of resistance. The terminals of the battery are joined by three wires in parallel each of resistance $36 \times 10^9$ C.G.S. units. Find in ergs the dynamical value of the heat evolved in each wire per second.

17. What is a galvanometer? Describe carefully the process of setting up and using a tangent galvanometer, and prove that the currents flowing are proportional to the tangents of the deflections.

The coil of a tangent galvanometer consists of 10 circular turns of wire each 50 cms. in diameter, and the needle is at the centre of the coil where the earth's horizontal force is ·16 C.G.S. unit of magnetic field intensity. Find the number which multiplied into the tangent of the deflection will give the absolute value of the current.

18. Give an account of the principal phenomena of induction of currents, and state (with description of corroborative experiments) the quantitative law of current induction by the motion of a conductor in a magnetic field, and deduce the electromagnetic definition of unit of electromotive force.

Hence define the C.G.S. units of electromotive force and resistance, and derive the practical units, the volt, and ohm.

CHEMISTRY—See p. 577.

ZOOLOGY—See p. 576.

BOTANY—See p. 575.

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## *D.--DEPARTMENT OF HISTORY AND LAW.*

## BRITISH HISTORY.

### FIRST PAPER—THREE HOURS.

(ONE *at least of the questions marked * must be taken. Not more than* EIGHT *questions in all should be attempted.*)

*1. Write short notes on: William the Lion, Grossteste, John of Gaunt, Bishop Kennedy, Hubert de Burgh.

*2. Explain the importance of: The Curia Regis, the Parliament of 1265, the Good Parliament, the House of Douglas, the influence of Margaret of Anjou.

*3. Draw a sketch map showing the position of Chester, Oxford, Shrewsbury, Evesham, Otterburn, St. Albans, and inserting the principal rivers in their neighbourhood.

4. Show the effect of geography upon the history of Northumbria and Mercia.

5. Give some account of the reign of Edward the Elder.

6. Sketch the history of Scotland during the reign of Malcolm Canmore.

7. What measures were taken by (1) Henry I., (2) Henry IV. to conciliate their English subjects?

8. What continental possessions were held by Henry III. and by Edward III. (at the time of the Treaty of Bretigny)?

9. Give an account of the royal favourites in the reigns of Edward II. and Richard II.

10. What events led to (1) the rebellion of 1173-4, (2) Edward I.'s intervention in Scotland, (3) the battles of Barnet and Tewkesbury?

11. Give an account of the connection of England and Wales from the Norman Conquest to the accession of Edward I.

12. What were the causes of the fall of the House of Lancaster?

## SECOND PAPER—Three Hours.

(One *at least of the questions marked * must be taken. Not more than* eight *qnestions in all should be attempted.*)

*1. Give an account of any *two* of the following: The Pilgrimage of Grace, the Rising of the Northern Earls, the Treaty of Newcastle, the Instrument of Government.

*2. Write *short* accounts of: Pym, Falkland, Lauderdale, Shaftesbury, Bolingbroke, Prince Charles Edward.

*3. What charges were brought against Cranmer, Strafford, Laud, Clarendon, Danby.

4. With what objects was the Star Chamber set up by Henry VII.?

5. Examine the relations of England to Scotland (1) in the reign of Henry VIII., (2) during the Great Rebellion, (3) in 1745-6.

6. Trace the course of the Reformation in the reign of Edward VI.

7. How were Philip II.'s schemes for the conquest of England frustrated?

8. Contrast the relations of James I. and Cromwell with Spain.

9. Why and how was Charles II. restored?

10. Explain the unpopularity of the foreign policy of William III. and the popularity of that of Queen Anne.

11. Examine the effect upon England of (1) the Methodist revival, (2) the American War, (3) the French Revolution.

12. Compare the objects of the home policy of Walpole and the younger Pitt.

Constitutional Law and History—See p 589.

Civil Law—See p. 582.

## II. FOR THE DEGREE WITH HONOURS.

**(And for Snell Exhibition, April, 1902).**

### *A.—GROUP OF CLASSICS.*

### LATIN TRANSLATION—Three Hours.

1. Translate with *very brief* notes where necessary to supplement your translation:

(*a*) Virg. *Aen.* X. 490—505.
(*b*) Hor. *Sat.* V. 5. 42—55.
*Either* (*c*) Cic. *Phil.* II. 30. 76. 77.
*Or* Cic. *Ad Atticum*, III. 15. 5. 6.
(*d*) Livy XXII. 61. 5—9.
(*e*) Tac. *Ann.* VI. 36.

2. Translate according to your profession any two or more of the following passages:

(*a*) Lucret. IV. 269—283.
(*b*) Juv. *Sat.* X. 273—288.
(*c*) Per. *Sat.* V. 91—101.
(*d*) Mart. IV. 19.
(*e*) Catull. LXIV. 307--319.
(*f*) Propert. *Carm.* IV. 3. 51—62.
(*g*) Tac. *Dial. de Orat.* 38.
(*h*) Plaut. *Capt.* 461—477.

3. Translate according to your profession with short notes on syntax, interpretation, reading or allusions:

(*a*) Virg. *Aen.* IX. 485—487.
(*b*) Tac. *Ann.* IV. 67. 3.
(*c*) Juv. *Sat.* VIII. 211—216.
(*d*) Propert. *Carm.* III. 1. 25—28.
(*e*) Plaut. *Capt.* 582 f.
(*f*) Hor. *Ars Poet.* 220—224.
(*g*) Pers. *Sat.* III. 21—24.
(*h*) Cic. *Phil.* VI. 3. 7.
(*i*) Livy XXI. 49. 7. 8.
(*k*) Cic. *Ad Atticum*, II. 16.

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### LATIN PROSE—Three Hours.

Translate into Latin prose:

Here commences the history of the English nation. The history of preceding events is the history of wrongs inflicted or sustained by various tribes, which indeed all dwelt on English ground, but which regarded each other with aversion such as has scarcely ever existed between communities separated by physical barriers. For even the mutual animosity of countries at war with each other is languid when compared with the animosity of nations which, morally separated, are yet locally intermingled. In no country has the enmity of race been carried further than in England. In no country has that enmity been more completely effaced. The stages of the process by which the hostile elements were melted down into one homogeneous mass are not accurately known to us. But it is certain that, when John became king, the distinction between Saxons and Normans was strongly marked, and that before the end of the reign of his grandson it had almost disappeared. In the reign of Richard the First the ordinary imprecation of a Norman gentleman was, "May I become an Englishman!" His ordinary form of indignant denial was, "Do you take me for an Englishman?" The descendant of such a gentleman a hundred years later was proud of the English name. —MACAULAY.

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## LATIN GENERAL PAPER—TWO HOURS.

### A. UNPREPARED TRANSLATION.

Nam Antipatrum reprehensum, quod diceret consentaneum esse ei, qui adfirmaret nihil posse conprehendi, id ipsum saltem dicere posse conprehendi, quod ipsi Antiocho pingue videbatur et sibi ipsum contrarium; non enim potest convenienter dici nihil conprehendi posse, si quicquam conprehendi posse dicatur. illo modo potius putat urguendum fuisse Carneadem: cum sapientis nullum decretum esse posset nisi conprehensum, perceptum, cognitum, ut hoc ipsum decretum, quo sapientis esset nihil posse percipi, fateretur esse perceptum: proinde quasi sapiens nullum aliud decretum habeat et sine decretis vitam agere possit! sed ut illa habet probabilia non percepta, sic hoc ipsum, nihil posse percipi; nam si in hoc haberet cognitionis notam, eadem uteretur in ceteris: quam quoniam non habet, utitur probabilibus. (Cicero, *Academics*, II. 34.)

*Or*,

Tum quod malivolus vetus poeta dictitat,
repente ad studium hunc se adplicasse musicum,
amicum ingenio fretum, hau natura sua:
arbitrium vostrum, vostra existumatio
valebit. qua re omnis vos oratos volo,
ne plus iniquom possit quam aequom oratio.
facite aequi sitis: date crescendi copiam,
novarum qui spectandi faciunt copiam,
sine vitiis: ne ille pro se dictum existumet,
qui nuper fecit servo currenti in via
decesse populum: quor insano serviat?
de illius peccatis plura dicét, quom dabit
alias novas, nisi finem maledictis facit.
adeste aequo animo: date potestatem mihi
statariam agere ut liceat per silentium;
ne semper servos currens, iratus senex,
edax parasitus, sycophanta autem inpudens,
avarus leno, adsidue agendi sint mihi
clamore summo, cum labore maxumo.

(Terence, *Heauton timorumenos*, prologue, 22-40.)

B. Scan any *six* of the following lines; name the measure in each case, and note any metrical peculiarities:

(*a*) Salva Roma, salva patria, salvus est Germanicus.
(*b*) Erat erus Athenis mihi adulescens optimus.
(*c*) Hinc illae lacrumae! haec illa'st misericordia.
(*d*) Muneribus; tibi pampineo gravidus auctumno.
(*e*) Qua nihil est homini quod amarius frondeat esca.
(*f*) Cras ingens iterabimus aequor.
(*g*) Cinge tempora floribus.
(*h*) Satis beatus unicis Sabinis.
(*i*) Levare diris pectora sollicitudinibus.
(*j*) Crescit occulto velut arbor aevo.

### C. History and Literature.

(Two *historical and* two *literary questions should be attempted.*)

1. Discuss *either* the element of myth, *or*, the influence of Greek literary tradition in the early books of Livy.

2. What powers did the Senate possess in theory? How were these powers aggrandized during the period of the Carthaginian wars?

3. What were the chief sources of Rome's food supply? What measures were taken at various periods to regulate prices and to prevent famine?

4. Illustrate from your books the condition of slaves in Rome.

5. What is *contaminatio*? Give examples of the treatment of Greek plots by Roman dramatists.

6. Illustrate by quotation Horace's attitude towards the poets of the Republic.

7. Do you find in the last six books of the Aeneid any trace of unfinished work?

8. Discuss the origin of Deponent Verbs in Latin.

## GREEK TRANSLATION—Three Hours.

Translate according to your profession. *Very short* notes may be added where necessary to supplement translation.

1. Hom. *Il.* XVI. 155—167.
   Explain the expression φόνον αἵματος.
2. Hom. *Od.* XIV. 287—300.
   Scan the first line and explain the last.
3. Pind. *Pyth.* IV. 354—390.
4. **Bacchyl. III. 47—52.**
   Refer to the context.
5. (*a*) Aesch. *Agam.* 171—197.
   (*b*) Aesch. *Agam.* 941—945.

How do you account for this passage in the characters of the two speakers?

6. Aesch. *Prom. Vinct.* 743—756.
   Add a note on the syntax of *ἔρριψ'* and *ἀπηλλάγην.*
7. Soph. *Oed. Rex.* 911—923.
   What is the significance of this speech (1) in the economy of the play, (2) in its revelation of Jocasta's character?
8. Soph. *Antig.* 824—838.
   *σύγκληρα* : MSS. *ἔγκληρα.* Discuss the meaning.
9. (*a*) Eur. *Hippol.* 603—615.
   (*b*) Eur. *Hippol.* 1105—1110.
10. Aristoph. *Acharn.* 544—557.
11. Aristoph. *Equit.* 524—539.
12. Herod. VI. 100.
    Who were these *ἱπποβόται*?
13. Herod. VII. 169.
    Explain the allusion.
14. Thuc. I. 93. 1—4.
    What meanings may the last clause bear?
15. Plato, *Rep.* IV. 444 d.
16. Plato, *Rep.* IX. 587 d, e.
17. (*a*) Plato, *Phaedo*, 80 c, d.
    (*b*) *Ἆρ' οὖν οὐ κατὰ πάντα ταῦτα ξυμβαίνει τὴν ἀνάμνησιν εἶναι μὲν ἀφ' ὁμοίων, εἶναι δὲ καὶ ἀπ' ἀνομοίων.* Plato, *Phaedo.*
    How does this come into the argument?
18. Aristot. *Poet.* IV. 1—4.

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## GREEK PROSE AND UNPREPARED TRANSLATION.

### Three Hours.

1. Translate into Greek:

When we know that the opinions of even the greatest multitudes are the standard of rectitude, I shall think myself obliged to make those opinions the masters of my conscience. But if it may be doubted whether Omnipotence itself is competent to alter the essential constitution of right and wrong, sure I am that such *things* as they and I are possessed of no such power. No man carries further than I do the policy of making government pleasing to the people. But the widest range of this politic complaisance is confined within the limits of justice. I would not only consult the interest of the people, but I would cheerfully gratify their humours. We are all a sort of children that must be soothed and managed. I think I am not austere or formal in my nature. I would bear, I would even myself play my part in any innocent buffooneries, to divert them. But I will never act the tyrant for their amusement.

2. Translate into English:

(*a*) *Ἐποιήθη δὲ ὧδε αὕτη ἡ πυραμὶς ἀναβαθμῶν τρόπον, τὰς μετεξέτεροι κρώσσας, οἱ δὲ βωμίδας ὀνομάζουσι. τοιαύτην τοπρῶτον ἐπεί τε ἐποίησαν αὐτὴν, ἤειρον τοὺς ἐπιλόπους λίθους μηχανῇσι ξύλων βραχέων πεποιημένῃσι· χαμάθεν* *μὲν ἐπὶ τὸν πρῶτον στοῖχον τῶν ἀναβαθμῶν ἀείροντες· ὅκως δὲ ἀνίοι ὁ λίθος ἐπ' αὐτὸν, εἰς ἑτέρην μηχανὴν ἐτίθετο, ἑστεῶσαν ἐπὶ τοῦ πρώτου στοίχου· ἀπὸ τούτου δὲ ἐπὶ τὸν δεύτερον ἥλκετο στοῖχον, ἐπ' ἄλλης μηχανῆς· ὅσοι γὰρ δὴ στοῖχοι ἦσαν τῶν ἀναβαθμῶν, τοσαῦται καὶ αἱ μηχαναὶ ἦσαν· εἴτε καὶ τὴν αὐτὴν μηχανὴν ἐοῦσαν μίην τε καὶ εὐβάστακτον μετεφόρεον ἐπὶ στοῖχον ἕκαστον, ὅκως τὸν λίθον ἐξέλοιεν. λελέχθω ἡμῖν ἐπ' ἀμφότερα, κατάπερ λέγεται. ἐξεποιήθη δ' ὦν τὰ ἐνώτατα αὐτῆς πρῶτα· μετὰ δὲ, τὰ ἑπόμενα τούτων ἐξεποίευν· τελευταῖα δὲ, αὐτῆς τὰ ἐπίγαια καὶ τὰ κατωτάτω ἐξεποίησαν.*

(*b*) ΧΟ. *δεῦρο πᾶς χώρει προθύμως εὐθὺ τῆς σωτηρίας.*
*ὦ Πανέλληνες, βοηθήσωμεν, εἴπερ πώποτε,*
*τάξεων ἀπαλλαγέντες καὶ κακῶν φοινικικῶν·*
*ἡμέρα γὰρ ἐξέλαμψεν ἥδε μισολάμαχος.*
*πρὸς τάδ' ἡμῖν, εἴ τι χρὴ δρᾶν, φράζε κἀρχιτεκτόνει,*
*οὐ γὰρ ἔσθ' ὅπως ἀπειπεῖν ἂν δοκῶ μοι τήμερον,*
*πρὶν μοχλοῖς καὶ μηχαναῖσιν εἰς τὸ φῶς ἀνελκύσαι*
*τὴν θεῶν πασῶν μεγίστην καὶ φιλαμπελωτάτην.*
ΤΡ. *οὐ σιωπήσεσθ', ὅπως μὴ περιχαρεῖς τῷ πράγματι*
*τὸν Πόλεμον ἐκζωπυρήσετ' ἔνδοθεν κεκραγότες;*
ΧΟ. *ἀλλ' ἀκούσαντες τοιούτου χαίρομεν κηρύγματος.*
*οὐ γὰρ ἦν ἔχοντας ἥκειν σιτί' ἡμερῶν τριῶν.*
ΤΡ. *εὐλαβεῖσθέ νυν ἐκεῖνον τὸν κάτωθεν Κέρβερον,*
*μὴ παφλάζων καὶ κεκραγὼς, ὥσπερ ἡνίκ' ἐνθάδ' ἦν,*
*ἐμποδὼν ἡμῖν γένηται τὴν θεὸν μὴ 'ξελκύσαι.*

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## GREEK GENERAL PAPER—Two Hours.

(*Candidates should in all cases attempt the* FIRST *question, and not more than* FIVE *others*; 1. (*a*) *and* (*b*) *count as* ONE *question.*)

1. (*a*) Explain the Homeric forms *χέρεια* (acc. sing.), *κείω*, *πέπασθε*, *κεκληγόντες*: and the meaning of *λυκάβας*, *ἀμαιμάκετος*, *ἀοσσητῆρες*, *περάτη*.

(*b*) Translate with notes on Homeric syntax:

(1) *κρείσσων γὰρ βασιλεὺς ὅτε χώσεται ἀνδρὶ χέρηϊ.*

(2) *ἔρχευ, ἐγὼ δὲ Πάριν μετελεύσομαι, ὄφρα καλέσσω,*
*αἴ κ' ἐθέλησ' εἰπόντος ἀκουέμεν· ὥς κέ οἱ αὖθι*
*γαῖα χάνοι.*

(3) *Πατρόκλῳ ἥρωϊ κόμην ὀπάσαιμι φέρεσθαι.*

(4) *εἰπὲ, ἄναξ, πῶς κέν με ἀναγνοίη τὸν ἐόντα;*

(5) *ὢ γέρον, οὔ τις κεῖνον ἀνὴρ ἀλαλημένος ἐλθὼν*
*ἀγγέλλων πείσειε γυναῖκά τε καὶ φίλον υἱόν.*

2. On what grounds did Aristarchus regard the concluding portion of the *Odyssey* as a later addition?

3. What is meant by the Epic Cycle?

4. Illustrate the use of slave characters in Tragedy and in Comedy.

5. *οὐδ' οἶδ' οὐδεὶς ἥντιν' ἐρῶσαν πώποτ' ἐποίησα γυναῖκα* (*Aeschylus apud Aristophanem*). Contrast the practice of Sophocles and Euripides.

6. Mention any clear instances of interpolation in your books. How are such interpolations to be accounted for?

7. Describe the attitude of the Delphic Oracle to Athens at various periods.

8. In what terms does Thucydides allude to earlier historians?

9. Discuss Plato's attitude towards *either* the popular religion *or* the politics of his own time and country.

10. Apply Aristotle's doctrine of *κάθαρσις* to Comedy.

11. What conditions (political or other) limited the development of Melic Poetry at Athens?

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## *B.—GROUP OF MENTAL PHILOSOPHY.*

### LOGIC.

#### FIRST PAPER—Three Hours.

1. Collect the indications of the influence (*a*) of the Eleatic school, (*b*) of Anaxagoras, (*c*) of the Pythagoreans on the Platonic doctrine.

2. Define the nature, functions, and place of soul in Plato's philosophy.

3. What indications does the *Timæus* afford of change in the theory of Ideas?

4. What special points in the theory of Ideas are selected for criticism by Aristotle? How far does Aristotle's criticism seem to be justified?

5. Sketch the argument in *Theætetus* by which Plato seeks to disprove the view that knowledge is sense-perception. How far does Plato's criticism of that view apply to Hume's explanation of knowledge?

6. Compare the views of Plato and Descartes regarding the possibility of error or false opinion.

7. "Theory of knowledge must take the place of constructive metaphysics." Discuss this view.

#### SECOND PAPER—Three Hours.

1. Explain the significance of the terms *critical* and *transcendental* as used by Kant, and illustrate by analysing his "deduction of the categories."

2. State and discuss Kant's distinction between the empirical self and the pure unity of self-consciousness.

3. Discuss generally the meaning of and grounds for the notion of limits of knowledge.

4. Explain and examine the view of Kant as to the nature and foundation of mathematical knowledge, comparing it with the views of Hume and Locke.

5. Give an analysis of the process of Recognition, noticing various views. What light does your analysis throw on the nature of the Laws of Association?

6. Contrast in detail our concrete time-experience with the abstract conception of time.

7. Analyse the notion of mental activity.

### THIRD PAPER—Two Hours.

1. Discuss the points of agreement and difference between the ultimate ideals of knowledge and of morality.

2. Define Certainty. Discuss the theories that the only ultimate certainty is (1) that of a present sensation, (2) that of the existence of self, (3) that of the existence of the universe as a systematic whole.

3. Examine the view that no new truth is gained by Reasoning.

4. "Psychology has to deal only with contents of consciousness." Explain and discuss.

## MORAL PHILOSOPHY.

### FIRST PAPER—Three Hours.

1. Compare Plato's Conception of Virtue with Aristotle's.

2. How does Aristotle define *προαίρεσις*? Examine his view of moral freedom.

3. Compare Spinoza's doctrine of 'self-preservation' with that of the Stoics, and show what traces of Stoicism are to be found in his ethical theory.

4. What is the place of Happiness in the Kantian Ethics?

5. In what respects, according to Green, is the definition of the Good by Aristotle and Plato final? In what respect is it incomplete?

6. "The world of practice depends on man in quite a different sense from that in which nature or the world of Experience does so." Explain and examine this statement.

7. In what ways has Hedonism been influenced by the Conception of Evolution?

### SECOND PAPER—Three Hours.

1. Investigate the conception of a "General Will." State Rousseau's view on the subject.

2. State and examine Aristotle's view of Slavery. Compare it with Thomas Carlyle's.

3. "The ethical unit is neither the individual nor the family, but the state." On what grounds can this view be maintained?

4. In what, according to Spinoza, does the power of the mind over the passions consist? How is it exercised?

5. Contrast the views of Plato and Mill as to the limits of individual liberty.

6. What objections can be urged against Kant's conception of the moral end as Duty? What better conception of the moral end is possible?

7. What confusions have arisen in philosophy owing to treating the distinction between subject and object as if it were identical with the distinction between Self and not-Self?

### THIRD PAPER—Two Hours.

1. "All human knowledge is hypothetical, and still there is a distinction between the true and the false." Explain this statement and discuss it.

2. Discuss the attempts to give to ethics and knowledge respectively their own special criteria.

3. Compare the distinction of 'Phenomenon' and 'Noumenon' in Kant, with that of 'Appearance' and 'Reality' in Bradley.

4. What is the relation of Ethics to Metaphysics?

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## *C.—GROUP OF MATHEMATICS AND NATURAL PHILOSOPHY.*

## MATHEMATICS.

### FIRST PAPER—Three Hours.

(Note.—*Candidates are requested not to attempt more than* NINE *of the following questions.*)

1. In any conic the semi-latus rectum is a harmonic mean between the segments of any focal chord.

Semi-circles are described on the segments $SP$, $SQ$ of a focal chord $PSQ$; show that the square on the common tangent varies as the length of the chord.

2. In a central conic the tangent at any point makes equal angles with the two focal radii to the point.

If two chords are drawn from any point of a central conic equally inclined to the normal at the point, the tangents at the other ends of the chords intersect on the normal at the point.

3. Show that through five given points, no three of which are collinear, there can be drawn one and only one conic.

The asymptotes of a hyperbola are parallel to two given straight lines and the hyperbola passes through two given points; find the locus of its centre.

4. Prove that the equation in homogeneous coordinates of a conic passing through the vertices of the triangle of reference is of the form

$$Ayz+Bzx+Cxy=0,$$

and find, when the coordinates are trilinear, the relation between $A$, $B$, $C$ if the conic is a rectangular hyperbola.

The sides $QR$, $RP$, $PQ$ of a triangle $PQR$ pass respectively through the vertices $A$, $B$, $C$ of the triangle of reference; if the point $P$ is fixed and the side $QR$ variable, show that the locus of the point of intersection of $BQ$ and $CR$ is a conic which touches the sides $AB$, $AC$ and passes through $P$.

5. Find the coordinates of a point which divides in a given ratio the line joining the points $(x_1, y_1, z_1)$, $(x_2, y_2, z_2)$ and express the condition that the line should be a tangent to the quadric

$$ax^2+by^2+cz^2=1.$$

A straight line, which intersects and is perpendicular to the axis of $z$, always touches a sphere whose centre is on the axis of $x$; find the equation of the surface on which the line lies and also the equation of the projection on the plane of $xy$ of the curve in which the line touches the sphere.

6. Show that the section of the surface

$$\frac{x^2}{a^2}+\frac{y^2}{b^2}-\frac{z^2}{c^2}=1$$

by the plane $lx+my+nz=0$ will be an ellipse provided $a^2l^2+b^2m^2$ is less than $c^2n^2$, and find the area of the section in this case.

Sections of the surface

$$ayz+bzx+cxy=1$$

are made by planes through the axis of $z$; prove that the axes of the sections lie on the cone

$$(ay+bx)(x^2+y^2+z^2)=2z(ayz+bzx+cxy).$$

7. Prove, without forming the discriminating cubic, that the equation

$$(x+2y-3z)^2+(y-2z)(y+2z)=1$$

represents a hyperboloid of one sheet, and write down the equations of one system of generators.

Find the angle between the asymptotes of the section of which the plane

$$x+2y-3z=0$$

cuts the surface.

8. Show that, when $n$ is an odd positive integer, $\sin nx$ is a rational integral function of $\sin x$ of the $n^{\text{th}}$ degree, and express $\sin nx$ as the product of $n$ factors that are linear in $\sin x$.

Prove also that, $n$ being an odd positive integer, $\tan nx$ may be expressed in the form

$$A_0 \tan x+\sum_{k=1}^{k=n-1}\frac{A_k}{\tan x-B_k},$$

and find the values of $A_0$, $A_k$, $B_k$.

9. State, without proof, a criterion for the convergence of the infinite product

$$(1+u_1)(1+u_2)(1+u_3)\ldots,$$

and find the value of $\sin\theta$ as an infinite product, proving the convergence of the product you obtain.

Show that the sum of the products, two at a time, of the numbers

$$\frac{1}{1^2},\ \frac{1}{2^2},\ \frac{1}{3^2},\ \frac{1}{4^2},\ \ldots$$

is $\pi^4/120$.

10. Obtain the relations that connect the roots and the coefficients of an algebraic equation, and show that if the roots $\alpha$, $\beta$, $\gamma$ of the cubic equation $x^3+ax+b=0$ satisfy the condition $\beta=2(\alpha-\gamma)$, the roots are

$$-\frac{13b}{12a},\ \frac{13b}{3a},\ \frac{13b}{4a},$$

and that

$$144a^3+2197b^3=0.$$

The cubic equation

$$x^3-5x^2+6x-1=0$$

is transformed by the substitution

$$y=x^2-4x+4;$$

prove that the equation becomes

$$y^3-5y^2+6y-1=0.$$

11. Establish the formula

$$\cos a=\cos b\cos c+\sin b\sin c\cos A.$$

Show that

$$\frac{\cos B}{\cos C}=\frac{\cos b\sin c-\cos c\sin b\cos A}{\cos c\sin b-\cos b\sin c\cos A},$$

and deduce the corresponding identity in plane trigonometry.

12. If $E$ is the spherical excess of a triangle, prove that

$$\cos\tfrac{1}{2}E=(\cos\tfrac{1}{2}a\cos\tfrac{1}{2}b+\sin\tfrac{1}{2}a\sin\tfrac{1}{2}b\cos C)\sec\tfrac{1}{2}c.$$

If the area of a spherical triangle is one-fourth of the area of the sphere, show that the arcs joining the middle points of its sides are quadrants.

## SECOND PAPER—THREE HOURS.

(NOTE.—*Candidates are requested not to attempt more than* NINE *of the following questions.*)

1. Find, from the definition of a differential coefficient, that of $e^x$ and also that of $e^x\log x$, stating distinctly the limit theorems you assume in your proof.

Find an expression for the $n^{\text{th}}$ differential coefficient of

$$\frac{e^x}{x^2+3x+2}.$$

2. If $u=f(x, y)$ and if $x=\phi(t)$, $y=\psi(t)$, state and prove the rule for obtaining the total derivative of $u$ with respect to $t$.

If $x=r\cos\theta$, $y=r\sin\theta$, transform

$$(x^2-y^2)\frac{\partial^2u}{\partial x\partial y}+xy\left(\frac{\partial^2u}{\partial x^2}-\frac{\partial^2u}{\partial y^2}\right)$$

into an expression in which $r$ and $\theta$ are the independent variables.

3. Define an asymptote, and show how to find the asymptotes of an algebraic curve.

Find the asymptotes of the curve

$$(x^2+y^2)(y^2-4x^2)+4y^2(x-1)+x^2(4x+3)=0.$$

Show by a diagram how the curve approaches its asymptotes, and sketch the curve near the origin.

4. A family of curves is given by the equation $f(x, y, a)=0$, where $a$ is the parameter; show how to find the envelope, and prove that it touches each member of the family.

From the vertex $A$ of the parabola $y^2=4ax$, a straight line $AP$ is drawn to any point $P$ of the curve, and on the axis a point $Q$ is taken so that $AQ$ may be equal to $PQ$; find the envelope of $PQ$.

5. Find an expression for the curvature and for the torsion at any point of a tortuous curve.

Expand the coordinates at any point of a tortuous curve in terms of the arc when the axes of coordinates are the tangent, the principal normal and the binormal at the point from which the arc is measured.

6. Prove the method of integration by parts, and show that if the integral of $f(x)$ is known the integral of $f^{-1}(x)$, the function inverse to $f(x)$, can be found.

Evaluate the integrals:

$$\text{(i)} \int e^{ax}\cos bx\,dx\,; \quad \text{(ii)} \int (a^2+x^2)^{\frac{3}{2}}dx\,; \quad \text{(iii)} \int_0^{\frac{\pi}{2}} \frac{dx}{(1+\cos a\cos x)^2}.$$

7. Define the Gamma and Beta Functions, and prove that

$$B(m,\,n)=\frac{\Gamma(m)\,\Gamma(n)}{\Gamma(m+n)}.$$

Express the following integrals in terms of Gamma Functions:

$$\text{(i)} \int_0^1 (1-x^m)^n x^p dx\,; \quad \text{(ii)} \int_0^\pi \frac{\sin^{n-1}x\,dx}{(1+a\cos x)^n}.$$

8. Investigate any expression for the area of a closed curve, stating clearly the variable and the limits of integration.

Find the area of a loop of the curve

$$x^5+y^5-5a^2x^2y=0.$$

9. A function $f(x)$ is defined by an infinite series

$$f(x)=\sum_{n=1}^{n=\infty}\phi_n(x)\,;$$

state and prove a sufficient condition that the equation

$$\frac{d}{dx}f(x)=\sum_{n=1}^{n=\infty}\frac{d}{dx}\phi_n(x)$$

may be true.

A function $y$ is defined by the equation

$$(1+x^2)\frac{dy}{dx}+xy=x+1\,;$$

if $y=1$ when $x=0$, find a series for $y$ in ascending powers of $x$, and state for what range of values of $x$ the series obtained defines the function $y$.

10. If $p$ denotes $dy/dx$, show how to integrate the equation

$$y=xf(p)+\phi(p).$$

Show from geometrical considerations that if $c$ is a root of the equation in $p$, $p=f(p)$, the straight line

$$y=cx+\phi(c)$$

will be an integral curve.

Integrate, discussing the singular solutions when they exist:

$$\text{(i)}\ (x^2-a^2)p^2-2xyp=x^2\,;$$
$$\text{(ii)}\ (y+x)^2(p+2)=(p+3)^2.$$

11. Solve the equation, $D$ denoting $\frac{d}{dx}$:

$$D^4y - 4D^3y - D^2y + 6Dy + 18y = e^{-3x}\cos x.$$

Solve also the simultaneous equations:

$$D^2y + Dy + Dz + y + 2z = e^{3x};$$
$$D^3y + D^2z - y + z = \sin 2x.$$

12. Show how to integrate the linear equation

$$P\frac{\partial z}{\partial x} + Q\frac{\partial z}{\partial y} = R,$$

and apply your method to obtain the general integrals of the equations,

$$\text{(i)}\ \{y + \sqrt{(z^2 - x^2 - y^2)}\}\frac{\partial z}{\partial x} - x\frac{\partial z}{\partial y} = 0;$$

$$\text{(ii)}\ (x + y - z)\left(\frac{\partial z}{\partial x} - \frac{\partial z}{\partial y}\right) + a\left(x\frac{\partial z}{\partial x} - y\frac{\partial z}{\partial y} + x - y\right) = 0.$$

Show that an integral of (i) is given by $z = \sqrt{(x^2 + y^2)}$, and state whether this integral is included in the general integral.

13. If $$f(x) = \sum_{n=0}^{n=\infty} (A_n \cos nx + B_n \sin nx),$$

find the values of $A_n$ and $B_n$ as definite integrals, taken between the limits 0 and $2\pi$. State the value of the series for $x=0$, $x=2\pi$, and $x=c$, assuming that $f(x)$ is discontinuous when $x=c$.

Find in the form of a series a function which shall be equal to $x^2$ from $x=0$ to $x=\pi$ and equal to $(2\pi - x)^2$ from $x=\pi$ to $x=2\pi$.

## NATURAL PHILOSOPHY.

### FIRST PAPER—Three hours.

(*Candidates are requested not to attempt more than* NINE *of the following questions.*)

1. Find the differential equation of the path of a particle which moves under the action of a force directed to a fixed point and varying inversely as the square of the distance of the particle from the point. Integrate the equation, and determine the constants, so that the path may be an ellipse.

Show how to find the angular velocity about the other focus of the ellipse, and prove that if all powers of the eccentricity above the first be neglected this angular velocity is constant.

2. The motion of a point in a plane being given with respect to fixed axes, investigate the expressions for its velocity and acceleration with respect to axes in the same plane which revolve about the common origin with constant angular velocity.

A particle moves in a smooth straight tube which is fixed in a horizontal plane at a distance $a$ from a point $O$ on the plane. If the plane revolve with constant angular velocity about the vertical through $O$, find the distance of the particle from a fixed point on the tube and the pressure on the tube.

3. Define the expressions: *moment of inertia*, *momental ellipsoid*, *principal axes of inertia*.

Find the momental ellipsoid at the vertex of a solid right cone of uniform density.

4. Define *space-centrode* and *body-centrode* in the uniplanar motion of a rigid body, and give the equations that lead to their determination.

Prove that if $M$ be the mass of the body, $k$ the radius of gyration about the centre of gravity, $r$ the distance of the instantaneous centre from the centre of gravity, $\omega$ the angular velocity, and $L$ the moment of the forces about the instantaneous centre

$$M(k^2+r^2)\dot{\omega}+M\omega r\dot{r}=L.$$

5. Find the equations which determine the motion of a rigid body acted on by given impulses.

A uniform elliptic lamina is rotating about its minor axis; if the minor axis is suddenly freed and the tangent at one end of the major axis fixed, find the new angular velocity.

6. A solid of revolution rotates about its axis $OC$, one point $O$ of which is fixed while the axis revolves round the vertical $OZ$. Establish the equations of motion, the external force being gravity.

Give the complete solution when the motion is steady.

7. Find the attraction of a thin uniform rod on an external point.

Two thin uniform rods $AB$ and $CD$ are so placed that the plane through $AB$ and the mid point $F$ of $CD$ is perpendicular to $CD$, and the plane through $CD$ and the mid point $E$ of $AB$ is perpendicular to $AB$. Show that the attraction of $AB$ on $CD$ is in the line $FE$ and is equal to

$$4k\lambda\lambda' \tan^{-1}\left\{\frac{ac}{b\sqrt{(a^2+b^2+c^2)}}\right\}$$

where $\lambda$, $\lambda'$ are the masses of the rods per unit of length, and $a$, $b$, $c$ are equal to $EA$, $EF$, $FC$ respectively.

8. Prove Poisson's characteristic equation of the potential due to a continuous distribution of matter of density $\rho$.

On a diameter $AB$ of a sphere whose centre is $S$ two spheres are described having $AS$ and $BS$ as diameters. If the space between the three spherical surfaces is filled with matter of uniform density, find the attraction at any point of the matter and the equipotential surfaces.

9. Obtain equations to determine the impulsive tension and the initial motion of any point of a heavy uniform chain lying on a smooth horizontal table when it receives a given tangential impulse at one end.

If the chain lies on the curve $r=ae^{\frac{3\theta}{2}}$ from $\theta=0$ to $\theta=\beta$, and receives a tangential impulse $T_0$ at the end $\theta=0$, the other end being free, show that the impulsive tension at any point is given by

$$T=T_0(e^{\frac{5\beta-\theta}{2}}-e^{-2\theta})/(e^{\frac{5\beta}{2}}-1).$$

10. Prove the expression $EI/R$ for the couple of bending at a cross-section of a beam, and state the assumptions made in the proof.

A straight thin bar $AB$, whose weight may be neglected, rests with its ends $A$ and $B$ on two props in the same horizontal line; if a weight

$W$ be hung at a point $P$ of it, show that the deflection at any point $Q$ between $A$ and $P$ is

$$\tfrac{1}{6}W.\,AQ\,.\,BP(AB^2 - BP^2 - AQ^2)/E.\,I.$$

Deduce from this result the deflection at $P$ when the weight is placed at $Q$.

11. A straight wire of length $l$ has one end turned relatively to the other in the positive direction through an angle $\theta$. Taking the axes of $x$, $y$ in the fixed end, with the extremity of the axis of the wire as origin, and the axis of $z$ along the axis of the wire, find the displacements at $(x, y, z)$ and specify the nature of the strain at the point.

Find the torsional rigidity of a circular cylinder of radius $a$.

12. Obtain the equation of continuity for a fluid in motion, the coordinates being cylindrical.

If the velocity-potential of the motion is $\phi = z \log r$, and if the density at a point fixed in space is independent of the time, show that the surfaces of equal density are of the form

$$r^2(\log r - \tfrac{1}{2}) = z^2 + f(\theta, \rho),$$

where $\rho$ is the density, and $z$, $r$, $\theta$ are cylindrical coordinates.

13. Find the velocity of propagation of a long wave in a horizontal rectangular canal with vertical sides and of uniform depth $h$.

The space between two infinite horizontal planes is filled with two fluids, one of density $\rho$ and depth $h$, and the other of density $\rho'$ and depth $h'$. Prove that the velocity of a long wave on the surface of separation is

$$\sqrt{\left\{\frac{g(\rho - \rho')hh'}{h'\rho + h\rho'}\right\}}.$$

14. Establish the Lagrangian equations of motion.

A uniform rod of length $a$ is hung from a fixed point by a thin cord of length $l$ attached at one end, and the system is constrained to move in a vertical plane through the fixed point. Find the equations of motion of the system, and prove that the frequency $(\mu/2\pi)$ of *small* oscillations is given by the equation

$$al\mu^4 - 2(2a + 3l)g\mu^2 + 6g^2 = 0.$$

## SECOND PAPER—THREE HOURS.

(*Note.—Not more than* NINE *questions to be attempted.*)

1. Show that the series $\dfrac{8\gamma}{\pi^3}\sum\limits_1^\infty \dfrac{1}{m^2}\sin\dfrac{m\pi}{2}\sin\dfrac{m\pi x}{2}$ has the value

$$2x\gamma/l \text{ for } 0 < x < l/2 \text{ and } 2(l - x)\gamma/l \text{ for } l/2 < x < l.$$

Apply the result to the two following physical problems:

($a$) The temperature distribution at time $t$ in a bar of length $l$, whose ends are kept at zero temperature, and whose initial temperature distribution is one which the temperature increases uniformly from one end to the middle point and thence diminishes uniformly to zero at the other end. The lateral surface of the bar is impervious to heat.

($b$) The form at time $t$ of a vibrating string of length $l$ whose ends are fixed and which is initially displaced into an isosceles triangle. The string is vibrating transversely, is under constant stretching force and starts from rest.

2. Establish, preferably from first principles, the equation of heat conduction for spherical coordinates $r$, $\theta$, $\phi$, in the form

$$\frac{\partial v}{\partial t}=\frac{K}{r^2}\left[\frac{\partial}{\partial r}\left(r^2\frac{\partial v}{\partial r}\right)+\frac{1}{\sin\theta}\frac{\partial}{\partial\theta}\left(\sin\theta\frac{\partial v}{\partial\theta}\right)+\frac{1}{\sin^2\theta}\frac{\partial^2 v}{\partial\phi^2}\right].$$

A spherical homogeneous shell whose surfaces have radii $a$ and $b$ respectively and whose substance has conductivity $k$, is kept with the surfaces permanently at the constant temperatures $V_a$ and $V_b$ respectively. Find the temperature distribution when the steady state has been acquired, and show that the total heat which crosses an isothermal in time $t$ is

$$\frac{4\pi kabt(V_a-V_b)}{b-a}.$$

3. It has been proposed to represent the rate of cooling of a surface by the empirical formula $e(v-v_0)^n$ (where $n$ has the value 1·2). Show that on this supposition the equation to be satisfied in a long, thin, metallic rod cooling laterally and with one end kept at constant temperature is

$$\frac{\partial v}{\partial t}=\frac{k}{c\rho}\frac{\partial^2 v}{\partial x^2}-\frac{ep}{c\rho s}(v-v_0)^n,$$

where $v$ is the temperature at distance $x$ measured along the rod from the heated end; $v_0$ is the temperature of the medium; $k$ is the conductivity, $\rho$ the density, $c$ the specific heat, $p$ the perimeter, $s$ the cross section of the rod.

4. Assuming the hydrokinetic equations of Euler, deduce the equation for small aerial vibrations performed isothermally in one dimension, viz:—

$$\frac{\partial^2\phi}{\partial t^2}=V^2\frac{\partial^2\phi}{\partial x^2},$$

where $\phi$ is the velocity potential at the point $x$ and time $t$, and $V$ is the square root of the quotient of mean pressure by mean density. State clearly all the approximations and assumptions made.

State considerations which show that aerial vibrations are performed very nearly adiabatically, and give without proof the required modification of the above equation.

5. A rod of length $l$ has both ends rigidly fixed. State (without proof) the equation to be satisfied for the longitudinal and torsional vibrations respectively, and show that the frequencies of the fundamental notes in the two cases are to each other in the ratio of the square roots of the Young's Modulus and the Rigidity Modulus.

Supposing the rod to be vibrating longitudinally in its 5th harmonic mode (having started from rest), find the analytical expression giving the displacement at distance $x$ from one end and time $t$, and describe the distribution of loops and nodes.

6. To the bottom of the vibrator of one torsional pendulum is fastened rigidly a wire which carries at its other end another torsional vibrator. The two wires are vertical and collinear, and the two vibrators execute

small vibrations in horizontal planes. Supposing that the usual condition (which is to be stated) for uniform twist is satisfied for each pendulum find completely the resulting motion when each vibrator receives initially a given displacement but no velocity.

Find the whole energy of the motion.

7. Discuss the reflection and transmission of light by a thin parallel stratum of transparent material, working out expressions for the intensities of the reflected and transmitted light.

Explain the formation of Newton's rings. Explain how it is possible to obtain a ring system with a single plate the surfaces of which are absolutely parallel.

8. Give an account of Huyghens' principle of secondary waves propagated from a primary wave front.

Show, by consideration of the variation of phase, that in order that the half effect of the first Huyghens' zone may be of the proper amount, the amplitude at distance $r$ of the secondary wave emitted by an element of area $dS$ at which the amplitude in the primary (plane) wave is unity, must be taken to be $dS/\lambda r$.

State generally how Huyghens' zones account for shadows.

9. Establish the equations of electric and magnetic intensity in a uniform medium of conductivity $k$, electric inductive capacity $\kappa$, and magnetic inductive capacity $\mu$, and show that these fulfil the solenoidal conditions.

Deduce the special form of differential equation for wave propagation in the case of symmetry about an axis (electric waves along a conducting wire as guide)—(1) for the insulating medium in which $k/\kappa$ is small, and (2) for the conductors in which $\kappa/k$ is small.

10. Give a careful general account of the results of Poynting's theory of the transmission of energy in the electromagnetic field. Illustrate by consideration of the simple case of discharge of a condenser.

Explain the conception of an electric current to which this theory leads, and apply the theory to prove that the rate of evolution of heat in a length $l$ of a long straight wire of resistance $r$ per unit of length by the passage of a steady current of strength $\gamma$ is $\gamma^2 lr$.

11. Define entropy, and show that when heat passes by conduction from one portion of matter to another, the entropy of the whole mass is increased.

Calculate the increase of entropy which a portion of a substance sustains in being raised from one absolute temperature $t_0$ to another $t$. Hence calculate, in dynamical units, the increase of entropy of a kilogramme of water which is raised from 0° C. to 100° C. and evaporated at the latter temperature.

12. The electromotive force $E$ of a voltaic cell changes with the absolute temperature $t$ (other things remaining the same) at rate $\partial E/\partial t$. Also $h$ is, in dynamical units, the energy-value of the chemical changes which take place in the passage of one unit of electricity through the cell. Prove by consideration of a cycle of changes or otherwise that

$$E = h + t\frac{\partial E}{\partial t}.$$

## *D.—GROUP OF ENGLISH (LANGUAGE, LITERATURE, AND BRITISH HISTORY).*

### FIRST PAPER—Two Hours.

### ANGLO-SAXON.

1. Translate:

(*a*) Ǫnd þā ongeat se cyning þæt, ǫnd hē on þā duru ēode, ǫnd þā unhēanlice hine wẹrede, oþ hē on þone æþeling lōcude, ǫnd þā ūt rǣsde on hine, ǫnd hine miclum gewundode; ǫnd hīe alle on þone cyning wǣrun feohtende, oþ þæt hīe hine ofslægenne hæfdon. Ǫnd þā on þæs wīfes gebǣrum onfundon þæs cyninges þegnas þā unstilnesse, ǫnd þā þider urnon swā hwelc swā þonne gearo wearþ ǫnd radost. Ǫnd hiera se æþeling gehwelcum feoh ǫnd feorh gebēad, ǫnd hiera nǣnig hit geþicgean nolde; ac hīe simle feohtende wǣran, oþ hīe alle lǣgon būtan ānum Bryttiscum gīsle, ǫnd sē swīþe gewundad wæs.

(*b*) Wiotodlīce fæsten wyrcð se hālga lārīow ymb ðā burg ðæs mōdes ðe hē gelǣrð ðone cræft hū hit mæg costingum wiðstǫndan, ǫnd him ēac gesægð hu ðǣm mǫnnum ðe him mægen ǫnd cræft wiexð, hū him ēac hwīlum ēakiað æfter ðǣm mægenum ðā costunga. Be ðǣm wæs suīðe ryhte gecueden: 'Berað hire tó hlæd, ǫnd ymbsittað hīe, ǫnd gāð tó mid rammum.' Đonne bireð ǣlc lārēow hlæd tō ðæs mǫnnes mōde, ðonne hē him gecȳðð hū sīo byrðen wiexð ǫnd hẹfegað. Ēac hē ārǣrð ceastre wið Hierusalēm, ðonne hē ðǣm ryhtlicum inngeðǫnce his hīeremǫnna foresægð ðā dīeglan sǣtenga ðæs lytegan fēondes, ðe hē him wēnan mæg. Ǫnd ēac hē bierð rammas ymbūtan ðæt mód his hīeremǫnna, ðonne hē him gecȳð mid hū scearplicum costungum wē sint ǣghwǫnon ūtan behrincgde, ǫnd se weall ūres mægenes ðurhðȳrelod mid ðǣm scearpum rammum ðāra costunga.

(*c*) Þā gewāt Ēadweard cyncg, and fēncg Æþelstān tō rīce. Þā Godan sǣl þuhte, þā gesohte hē þone kynincg Æþelstān, and bæd þæt hē him geþingude wiþ Ēadgife his bōca edgift. And se cyncg þā swā dyde. And hēo him ealle āgẹf būton Osterlandes bēc. And hē þā bōc unnendre handa hire tō lēt, and þāra ōþerra mīd ēaðmēttum geþancude; and ufen an þæt twẹlfa sum hire āþ sealde, for geborenne and ungeborenne, þæt þis ǣfre gesẹtt spǣc wǣre.

(*d*) *S*ōna wæs on *s*unde   sē þe ǣr æt *s*æcce gebād
*w*īghryre *w*rāðra,   *w*æter ūp þurhdēaf;
wǣron *ȳ*ðgebland   *ea*l*l* gefǣlsod,
*ēa*cne geardas,   þā se *ę*llorgāst
oflēt *l*īfdagas   and þās *l*ǣnan gesceaft.
Cōm þā tō *l*ande   *l*idmanna helm
*s*wīðmōd *s*wymman,   *s*ǣlāce gefeah,
*m*ægenbyrþenne   þāra þe hē him *m*id hæfde
Ēodon him þā tō*g*ēanes,   *G*ode þancodon,
ðrȳðlic *þ*egna hēap,   *þ*ēodnes gefēgon,
þæs þe hī hyne ge*s*undne   ge*s*ēon mōston.
ðā wæs of þæm *h*rōran   *h*elm and byrne
lungre ā*l*ȳsed:   *l*agu drūsade,
*w*æter under *w*olcnum,   *w*ældrēore fāg.

(*e*)   Ic eom *r*īces lēas:
habbað mē swā *h*earde   *h*ęlle clǫmmas,
*f*æste be*f*angen.   Hēr is *f*ȳr micel
*u*fan and neoðone:   ic *ā* ne geseah
*l*āðran *l*andscipe;   *l*īg ne āswāmað
*h*āt ofer *h*ęlle.   Mē hafað *h*ringa gespǫng,
*s*līðhearda *s*āl   *s*īðes āmyrred,
ā*f*yrrd mē mīn *f*ēðe,   *f*ēt synt gebundene,
*h*anda ge*h*æfte;   synt þissa *h*ęldora
*w*egas for*w*orhte;   swā ic mid *w*ihte ne mæg
of þissum *l*ioðobęndum.

(*f*) *S*mylte is se *s*igewǫng,   *s*un*n*bearo līxeð,
*w*uduholt *w*ynlic:   *w*æstmas ne drēosað,
*b*eorhte *b*lēde,   ac þā *b*ēamas á
*g*rēne stǫndað.   swā him *G*od bibēad;
*w*intres and sumeres   *w*udu bið gelīce
*b*lēdum gehǫngen;   nǣfre *b*rosniað
*l*ēaf under *l*yfte,   ne him *l*īg scęþeð
*ǣ*fre tō *ea*ldre,   ǣr þon *e*dwęnden
*w*orulde ge*w*eorðe.   Swā iū *w*ætres þrym*m*
ealne *m*iddangeard,   *m*ęreflōd þeahte
*eo*rðan *y*mbhwyrft,   þā se *æ*þela wǫng
*ǣ*ghwæs onsund   wið *y*ðfare
ge*h*ealden stōd   *h*rēora wǣga
*ēa*dig, *u*nwęmme, þurh *ē*st Godes:
bīdeð swā ge*b*lōwen   oð *b*ǣles cyme,
*D*ryhtnes *d*ōmes,   þonne *d*ēaðræced,
*h*æleþa *h*eolstorcofan   on*h*liden weorþað.

2. What non-Celtic languages or dialects were spoken in this country in the ninth century, and what were the chief differences between them? Illustrate from the *Reader.*

3. (*a*) Give the derivation and meaning of the following: miercels, nathwilc, oftorfedon, bields, sigoreadig, edhwierft, spēdig.

(*b*) Parse and conjugate: nim, slōg, coren, bītt, āhte.

(*c*) Compare the adjectives, eald, micel, lēof, gōd.

4. "The complete work must have been one of the noblest in the whole range of Old-English poetry." Remark upon the criticism of the *Judith.*

## SECOND PAPER—Two Hours.

## MIDDLE ENGLISH.

1. Translate:

(*a*) Ac si láge sóne adiligde. þurh unwreaste leahtru*m* *and* manifald sénne. Þer-efter arerde god þas lage þurh moyse*n* þe heretoche of his folce þe he þa ʒecás. *and* wráte his hi*m* self in stanene wax bredene. *and* si ʒeleste sume wíle. *and* þer-of were larþawes *and* ʒelaðieres Moises *and* aaro*n*. *and* samuel. *and* fele oðre. Swa la*n*ge þ*at* si alswa swið[e] abreað. *and* adiliʒede. þurh unhersa*m*nesse. wat hit co*m* to þa time þe god sende þe halie witíge. *and* hi þa arérdon mid hare wríte þurh þes halie gastes gífe þa god lage. *and* rihtleceden þ*at* folc swa se hi mihte*n*. *and* bodeden ures hlafordes to-cýme ðes helendes ih*es*u c*r*istes. þe sceolde his aʒén wille. þurh his gastes ʒífe in ure heorte wríte. *and* don ús mid his mihte þ*at* stef-creft ne mihte. *and* an þesser láʒe of þe witʒin. wer laðieres móche. Eft bine fece *and* þes lare *and* lage swiðe acolede þurh manifea[l]d sénne *and* hur *and* hur þurh false gódes þe ælc þiode ha*m* selfe mácede. sume of golde. súm of silure of treowe. of stane.

(*b*) Eft*er* þon he him sceawede þe sea of helle *and* i*n*nan þan sea weren .vii. bittere uþe. þe forme was snaw. þat oðer is. þet þridde fur. þet feorðe blod. þe fifte neddren. þe siste smorðer. the seofeþe ful stunch. heo wes wurse to þolien þenne efreni of alle þa oðre pine. Innan þan ilke sea weren un-aneo*m*ned deor su*m*me feðer-foted. Su*m*me al bute fet, *and* heore eʒen weren al swilc swa fur. *and* heore eþem scean swa deð þe leit a-monge þunre. þas ilke nefre ne swiken ne dei ne niht to brekene þa ermi*n*g licome of þa ilca men þe on þisse liue her hare sc*ri*ft enden nalden. Su*m*me of þan mo*n*ne sare wepeð. Su*m*me swa deor lude remeð. su*m*me þer g*ra*ninde sikeð. su*m*me þer reowliche gneȝeð his aȝene tunge. Su*m*me þer wepeð. *and* alle heore teres beoð berni*n*de gleden glide*n*de ouer heore aȝene nebbe. *and* swiðe reowliche ilome ȝeiȝeð *and* ȝeorne bisecheð þat me ham ibureȝe.

(*c*) Acc nu ne geȝȝneþþ it hemm nohht
to winnenn eche blisse
Þohh þatt teȝȝ standenn daȝȝ & nihht
to þeowwtenn Godd & lakenn;
Forr all itt iss onnȝæness Godd
þohh þatt teȝȝ swa ne wennen,
Forrþi þatt teȝȝ ne kepenn nohht
noff Crist, noff Cristess moderr.
& tohh swa-þehh nu wile icc ȝuw
off þeȝȝre lakess awwnenn,
Hu mikell god teȝȝ tacnenn uss
off ure sawle nede;
Forr all þatt lac wass sett þurrh Godd,
forr þatt itt shollde tacnenn
Hu Cristess þeoww birrþ lakenn Crist
gastlike i gode þæwess,
Wiþþ all þatt tatt bitacnedd wass
þurrh alle þeȝȝre lakess.

(*d*) Þe mone mandeþ hire lyht,
So doþ þe semly sonne bryht,
When briddes singeþ breme;
Deawes donkeþ þe dounes,
Deores wiþ huere derne rounes,
Domes forte deme;
Wormes woweþ vnder cloude,
Wymmen waxeþ wounder proude.
So wel hit wol hem seme,
Ȝef me shal wonte wille of on:
Þis wunne weole y wole forgon,
Ant wyht in wode be fleme.

(*e*) Strengþe zayþ. 'Huo ssel ous todele uram cristes loue? tribulacion. oþer zorȝe. and oþre. zykere byeþ. uor noþer dyaþ / ne lyf. and oþre.' Ryȝt zayþ. 'Doþ out þane uerste messagyer. hyt ne is naȝt riȝt þet he bleue ine þe house / myd þe ryȝtuolle. Vor ryȝ[t]uolle loue : deþ out drede.' Strengþe zayþ. 'guo out drede. þou ne sselt naȝt by ine oure stedes.' Drede zayþ. 'Huet habbe ich mis-do. ich uor guode zede. Temperancia zayþ. 'Broþ[r]en and zostren / ich zigge to you. na*m*more smacky / þa*n*ne be-houeþ. ac smacke to sob*re*té. Þou drede / guo out myd guode wylle. þole þane dom / þet riȝt heþ y-demd. be auenture þe myȝt eft by onderuonge. yef wylnynge of lyf wyþ-oute ende / oþerhuyl let of.' Þe makyere zayþ. Þus / þus / nou ssel eurich hys heuynesse / ssake a-way / uram drede / to þe loue of þe heuenelyche contraye him-zelue wende. Zuo by hit.

(*f*) By forty dayeȝ wern faren · on folde no flesche styryed,
Þat þe flod nade al freten · w*it*h feȝtande waȝeȝ,
For hit clam vche a clyffe · cubit*es* fyftene,
Ou*er* þe hyȝest hylle · þat hurkled on erþe.
Þe*n*ne mo*ur*kne i*n* þe mudde · most ful nede
Alle þat spyrakle i*n*-spranc · no sprawly*n*g awayled,
Saue þe haþel vnder hach · & his here strau*n*ge,
Noe, þat ofte neuened · þe name of oure lorde,
Hy*m* aȝt-su*m* i*n* þat ark · as aþel god lyked,
Þer alle ledeȝ i*n* lome · lenged druye.
Þe arc houen watȝ on hyȝe · w*it*h hurlande goteȝ,
Kest to kytheȝ vncouþe · þe clowdeȝ ful nere.
Hit walt*er*ed on þe wylde flod · went as hit lyste,
Drof vpon þe depe dam · i*n* dau*n*g*er* hit semed,
With-oute*n* mast, oþ*er* myke · oþ*er* myry bawelyne,
Kable, oþer capstan · to clyppe to her ankreȝ,
Hurrok, oþ*er* hande-helme · hasped on roþ*er*,
Oþ*er* any sweande sayl · to seche aft*er* hauen,
Bot flote forthe w*it*h þe flyt · of þe felle wyndeȝ;
Wheder-warde so þe wat*er* · wafte, hit rebou*n*de.

2. State the main distinctions between northern and southern English in the 13th and 14th centuries.

3. Describe the alliteration of Anglo-Saxon and of 14th century poetry.

4. Characterise 'The Owl and the Nightingale,' 'The Handlyng Synne,' and Minot's 'Political Songs,' adding notes on the writers.

THIRD PAPER—Two Hours.

## HISTORY OF ENGLISH LITERATURE, 1350—1660.

I.

1. Compare Chaucer's and Gower's handling of distinctively mediaeval themes.

2. Trace the history of alliterative poetry from Barbour to Dunbar.

3. Discuss the character, history, and tastes of William Langland.

4. Write an estimate of Robert Henryson as Chaucerian and as literary pioneer.

5. Write short notes on the prose work of *three* of these: Pecock, Capgrave, Caxton, Sir Thomas More, Latimer.

6. Give an account of Chaucer's prosody and its influence.

7. Discuss the importance as dramatic precursors of Udall, John Still, and the authors of *Gorboduc*.

8. Discuss the connexion of the Protestant Reformation with the outburst of literature in the reign of Elizabeth.

9. Trace the beginnings of Italian influence on English literature.

FOURTH PAPER—Two Hours.

## HISTORY OF ENGLISH LITERATURE, 1350—1660.

II.

1. Estimate, generally and very briefly, the dramatic and lyrical merits of the "University wits," especially Greene, Peele, and Marlowe.

2. Describe and criticise Euphuism.

3. Is the earlier half of Elizabeth's reign (considered as a period of literary history) justly described as barren?

4. Give a short account of three Elizabethan sonnet-sequences other than Shakespeare's.

5. Name and briefly review the patriotic poems of Warner, Daniel, and Drayton.

6. Compare and contrast the Puritanism of Spenser and Milton.

7. Discuss the presentation, in the Elizabethan drama, of any *two* of the following types: The Usurer; The Hired Bravo; The Literary Fop; The Bragging Soldier.

8. Give some account of John Donne and his school of poetry.

9. Discuss the influence of the Civil War on English Literature.

FIFTH PAPER—Two Hours.

## SHAKESPEARE.

I.

1. Briefly summarise what is known of Shakespeare before he settled in London.

2. In what ways was the Elizabethan age favourable to the rise of a great dramatist?

3. Discuss Ben Jonson's statement that Shakespeare "was not of an age, but for all time."

4. Coleridge contends that Shakespeare's wit is produced "not by a combination of words but by a combination of images." Discuss.

5. Show the advantages of presentment secured by Shakespeare in his comparative indifference to the Unities.

6. Discuss the faults of Shakespeare's two longer poems considered as narratives.

7. Discuss the authority of the First Folio in determining the text of Shakespeare's works.

8. Give some account of the work of any two notable Shakespearian scholars of the eighteenth century.

### SIXTH PAPER—Two Hours.

## SHAKESPEARE.

### II.

1. Estimate Shakespeare as a song writer.

2. Illustrate Shakespeare's use of the Fool, with special reference to the highest example of the class.

3. It has been said that Shakespeare nowhere treats the passion of avarice. Discuss.

4. Give a brief account of the Elizabethan stage.

5. Consider the description of Shakespeare as a "philosophical aristocrat" in politics.

6. Give some account of Shakespeare's collaboration in play-writing.

7. "In Shakespeare's plays there are no heroes, only heroines." Discuss.

8. Describe the quarto editions of *Hamlet*, and estimate their value.

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## *E.—GROUP OF MODERN LANGUAGES.*

## FRENCH LANGUAGE AND LITERATURE.

### FIRST PAPER—Three Hours.

1. Traduire en anglais le passage suivant:

Un Irlandais, au XV$^{e}$ siècle, le comte de Kildare, accusé d'avoir commis un sacrilège en brûlant la cathédrale de Castel, répondit, pour s'excuser, qu'il croyait que l'archevêque était dedans. Voilà une plaisanterie humoristique. Cherchons en quoi consiste son originalité, et rendons-nous compte de ce qui la distingue d'un trait comique ou spirituel.

Le trait comique nous offre toujours une naïveté essentiellement inconsciente. M. Jourdain, faisant un assaut d'armes avec Nicole et

recevant d'abord plusieurs coups de bouton lui crie : "Tout beau ! holà ! doucement ! tu me pousses en tierce avant que de pousser en quarte, et tu n'as pas la patience que je pare !" Nous rions ici d'une naïveté pure, d'une bêtise.

A la différence du comique, le trait spirituel consiste toujours dans une finesse ou une malice logiquement exprimée et consciente d'elle-même. Un Gascon, après avoir donné par politesse son assentiment à une histoire incroyable, ajoutait : "Mais je ne la répéterai pas, à cause de mon accent." Nous rions ici, ou plutôt nous sourions, parce que notre raison est chatouillée de la façon la plus agréable par la piquante épigramme du Gascon. P. STAPFER.

2. Traduire en anglais :

Que de danses le soir égayaient la pelouse !
Plus le jour retirait sa lumière jalouse,
Plus elles s'animaient, comme pour ressaisir
Ce que l'heure fuyante enviait au plaisir.
Chaque arbre du verger avait son chœur champêtre,
Son orchestre élevé sur de vieux troncs de hêtre ;
Le fifre aux cris aigus, le hautbois au son clair,
La musette vidant son outre pleine d'air,
L'un sautillant et gai, l'autre plaintive et tendre,
S'accordant, s'excitant, s'unissant pour répandre
Ensemble ou tour à tour, dans leurs divers accents,
Le délire ou l'ivresse à nos cœurs bondissants.

LAMARTINE, *Jocelyn.*

3. Translate into French :—

## IN MEMORIAM.

The path by which we twain did go,
Which led by tracts that pleased us well,
Through four sweet years arose and fell,
From flower to flower, from snow to snow :

And we with singing cheered the way,
And crowned with all the season lent,
From April on to April went,
And glad at heart from May to May :

But when the path we walked began
To slant the fifth autumnal slope,
As we descended following hope,
There sat the shadow feared of man ;

Who broke our fair companionship,
And spread his mantle dark and cold ;
And wrapt thee formless in the fold,
And dulled the murmur on thy lip,

And bore thee where I could not see
Nor follow, though I walk in haste ;
And think that, somewhere in the waste,
The Shadow sits and waits for me. TENNYSON.

## PORTRAIT OF COLERIDGE.

Brow and head were round, and of massive weight, but the face was flabby and irresolute. The deep eyes of a light hazel were as full of sorrow as of inspiration; confused pain looked mildly from them, as in a kind of mild astonishment.

The whole figure and air, good and amiable otherwise, might be called flabby and irresolute; expressive of weakness under possibility of strength. He hung loosely on his limbs, with knees bent, and stooping attitude; in walking, he rather shuffled than decisively stepped; and a lady once remarked, he never could fix which side of the garden-walk would suit him best, but continually shifted, in corkscrew fashion, and kept trying both. A heavy-laden, high-aspiring, and surely much-suffering man. Carlyle.

## SECOND PAPER—Three Hours.

1. Traduire en français moderne le passage suivant:

Jofreiz d'Anjou at son graisle sonét:
Franceis descendent, Charles l'at comandét.
Toz lor amis qu'il i ont morz trovez,
Ad un charnier sempres les ont portez.
Assez i at evesques ed abez,
Monies, chanoinies, proveidres coronez,
Sis ont assols e seigneiz de part Deu;
Mirre ed amome i firent alumer,
Gaillardement toz les ont encensez,
A grant onor puis les ont enterrez,
Sis ont laissiez: qu'en fereint il el?

Chanson de Roland.

2. A metrical study and grammatical commentary of the preceding lines.

3. A grammatical study of the following extract of Montaigne's *Essays*:

Je sais bien, quand j'ois quelqu'un qui s'arrête au langage des *Essais*, que j'aimerais mieux qu'il s'en tût: ce n'est pas tant élever les mots comme déprimer le sens, d'autant plus piquamment que plus obliquement. Si suis-je trompé, si guère d'autres donnent plus à prendre en la matière; et, comment que ce soit, mal ou bien, si nul écrivain l'a sensée ni guère plus matérielle, ni au moins plus drue en son papier. Pour en ranger davantage, je n'en entasse que les têtes: que j'y attache leur suite, je multiplierai plusieurs fois ce volume. Et combien y ai-je épandu d'histoires qui ne disent mot, lesquelles qui voudra éplucher un peu plus curieusement, en produira infinis *Essais*. Ni elles, ni mes allégations, ne servent pas toujours simplement d'exemple, d'autorité, ou d'ornement; je ne les regarde pas seulement par l'usage que j'en tire: elles portent souvent, hors de mon propos, la semence d'une matière plus riche et plus hardie; et souvent, à gauche, un ton plus délicat, et pour moi qui n'en veux en ce lieu exprimer davantage, et pour ceux qui rencontreront mon air. . . .

### THIRD PAPER—THREE HOURS.

### COMPOSITION FRANÇAISE.

1. Traiter l'un des sujets suivants :

(*a*) Dans quels sens divers faut-il entendre que Montaigne, La Rochefoucauld, Pascal and La Bruyère sont des moralistes ?

(*b*) Montaigne et Pascal, comme *écrivains*.

2. Traiter l'un des sujets suivants :

(*a*) Apprécier *Les Contemplations*.

(*b*) Indiquer des traits essentiels qui forment la figure du héros romantique dans le théâtre de V. Hugo.

(*c*) Les poètes français du XVI$^e$ siècle, jugés par La Bruyère.

(*d*) Apprecier le parallèle entre Corneille et Racine par La Bruyère (Les Ouvrages de l'Esprit).

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## GERMAN LANGUAGE AND LITERATURE.

### FIRST PAPER—THREE HOURS.

I. Translate :

(*a*) Unter den jungen Vorkämpfern der neuen litterarischen Schule zeichnete sich bald nach 1830 ein Schriftsteller aus, welcher mit vollem Enthusiasmus die Wendung der Litteratur zur Politik und zur unmittelbaren Einwirkung auf die öffentlichen Zustände vertrat, dabei eine ungewöhnliche Energie an den Tag legte und sich von seinen litterarischen Genossen nicht nur durch eine grössere Tiefe und Vielseitigkeit der Bildung, sondern vor allem durch den strengen fast scharfen und herben Ernst unterschied, mit dem er seine Principien zum Sieg zu führen trachtete. Die proteische Natur dieses Talents leuchtete schon aus den wesentlich kritisch-publizistischen Anfängen desselben hervor, sie sollte sich in den poetischen und halbpoetischen Erzeugnissen offenbaren, zu denen er nach wenigen Jahren überging, und im Verlauf eines langen, unendlich thätigen Schriftstellerlebens zu einer der eigentümlichsten Gesamterscheinungen führen, welche die deutsche Litteratur aufzuweisen hat. In der geistigen Entwicklung Gutzkows trat zu Tage, was freilich der Verlauf aller Litteraturgeschichte erweist, dass eine wirkliche Kraft auch von der bedenklichsten geistigen Richtung und der irrigsten Theorie nicht völlig zerstört werden kann, dass aber auch die stärkste und trotzigste Kraft die Wirkung einer unkünstlerischen Zeit und falscher Tendenzen niemals völlig besiegt.

(*b*) Doctor Faustus, nach dem jhme sein Vnmuht ein wenig vergienge, fragte er seinen Geist Mephostophilem von Regierung, Raht, Gewalt, Angriff, Versuchungen vnd Tyranney desz Teuffels, vnnd wie er solches anfänglich getrieben habe? Darauff der Geist sagte: Diese Disputation vnd Frage, so ich dir erklären solle, wirt dich, mein Herr Fauste, etwas zu Vnmuht vnd Nachdencken treiben, zu dem soltu solchs von mir nicht begert haben, denn es trifft vnser Heimligkeit an, wiewol ich nicht hinüber kan, So soltu wissen, dasz so bald der verstossene Engel

in Fall kam, ist er Gott vnnd allen Menschen Feind worden, vnd sich, wie noch, vnterstanden allerley Tyranney am Menschen zu vben, wie dann noch alle Tage Augenscheinlich zusehen, dasz einer zu Todt fällt, ein ander Erhenckt, Erträncket, oder Ersticht sich selbs, der Dritte wirt erstochen, Verzweiffelt vnd dergleichen.

(*c*) Doch weil sie hat ein trewen muht,
Kan er sie dester basz gedulden,
Wan es kumbt auch gar offt zu schulden,
Das dem Mann auch entschlupfft ein fusz,
Das er ein federn lassen musz,
Etwan leit schaden durch betrug,
Das er auch ist nit weysz genug.
Denn zieh man schad gen schaden ab,
Darmit man friedt im Ehstandt hab
Vnd keyn vneinigkeyt auff wachs.

## II. GRAMMAR AND PHILOLOGY.

(*Answer* SEVEN *of the following questions.*)

1. What are the chief linguistic differences between Old High German and Middle High German?

2. To what influences is the existence of Modern High German, as the standard literary language of Germany, due?

3. What is meant by *Analogiebildung* (levelling)? Give examples of this process (*a*) in the declension of nouns, (*b*) in the preterite of strong verbs.

4. Account for the change of *d* to *t* in *leiden-litt*, and illustrate similar consonant changes.

5. How did the passive voice form its tenses in Middle High German?

6. Account historically for the double preterite subjunctive *hälfe-hülfe*, *spänne-spönne*.

7. Give examples (*a*) of the use of the participle in an absolute construction (*b*) of the absolute accusative and a past participle.

8. Mention some of the chief changes which German has undergone since the sixteenth century.

9. How are adverbs formed from adjectives in Middle High German?

10. Give, (1) the principal parts of *biegen*, *bërn*, *varn*, *stān*; (2) the present tense of *tuon*, *lān*, *wësen*.

## SECOND PAPER—THREE HOURS.

I. Translate into German:

(*a*) Schiller's former writings had given proofs of powers so great and various, such an extent of general intellectual strength, and so deep an acquaintance both practical and scientific, with the art of composition, that in a subject like history, no ordinary work was to be looked for from his hands. With diligence in accumulating materials, and patient care in elaborating them, he could scarcely fail to attain distinguished excellence. The present volume was well calculated to fulfil such expectations. The *Revolt of the Netherlands* possesses all the common requisites of a good history, and many which are in some degree peculiar to itself. The information it conveys is minute and copious; we have all the circumstances of the case, remote and near, set distinctly before us. Yet, such is the skill of the arrangement, these are at once briefly and impressively presented. CARLYLE.

(*b*) *Puff.* No, no, sir; what Shakespeare says of actors may be better applied to the purpose of plays; they ought to be the abstract and brief chronicles of the time. Therefore when history, and particularly the history of our own country, furnishes anything like a case in point, to the time in which an author writes, if he knows his own interest, he will take advantage of it; so, sir, I call my tragedy *The Spanish Armada*; and have laid the scene before Tilbury Fort.

*Sneer.* A most happy thought.

*Dang.* It was—I told you so. But pray now, I don't understand how you have contrived to introduce any love into it.

*Puff.* Oh, nothing so easy! for it is a received point among poets, that where history gives you a good heroic outline for a play, you may fill up with a little love at your own discretion: in doing which, nine times out of ten, you only make up a deficiency in the private history of the times. Now I rather think I have done this with some success.

SHERIDAN.

## II. LITERATURE.

(*Answer* SIX *of the following questions, either in English, or German.*)

1. (*a*) Durch welche Einflüsse wurde die höfische Poesie in Deutschland begründet.

(*b*) Charakter und Stoffe der ritterlichen Poesie.

2. Wie erklären Sie den Übergang vom Minnegesang zum Meistergesang.

3. Geben Sie ein Bild von Johann Fischarts Leben und Werken.

4. Worin bestehen die Verdienste Klopstocks, Wielands, Lessings, Herders.

5. Geben Sie eine Schilderung der Beziehungen zwischen Goethe und Schiller und ihrer Bedeutung für die deutsche Litteratur.

6. Welchen Anteil hatte England an dem Aufschwung der deutschen Litteratur in der zweiten Hälfte des achtzehnten Jahrhunderts.

7. Zeichnen Sie Schiller in der Epoche seiner Vollendung.

8. Geben Sie einen Überblick ueber die Litteratur des siebzehnten Jahrhunderts.

9. Schildern Sie den Einfluss von Lessings Kritik auf das deutsche Theater.

## THIRD PAPER—THREE HOURS.

I. 1. Translate:

Des wart vil maneger slahte
sîn gedinge und sîn ahte,
er gedâhte daz er wære
vil lîhte genisbære,

und fuor alsô drâte
nâch der arzâte râte
gegen Munpasiliere.
dâ vand er vil schiere
niht wan den untrôst
daz er niemer würde erlôst.

Give the infinitive of *gedâhte*, *fuor*, *erlôst*; and write notes on *des*, *ri lihte*, *drâte*, *Munpasiliere*.

2. Translate:

Daz herze mir dô alsô stuont
als alle werlttôren tuont,
den daz saget ir muot
daz si êre unde guot
âne got mügen hân.
sus troug ouch mich mîn tumber wân,
wan ich in lützel ane sach
von des genâden mir geschach
vil êren unde guotes,
dô dô des hôhen muotes
den hôhen portenære bedrôz,
die sælden porte er mir beslôz.
dane kum ich leider niemer in.

HARTMANN VON AUE.

Comment on the syntax of the last line; and give the chief parts of *stuont*, *troug*, *sach*.

II. Translate:

Abenteurliche ding trib Vlenspiegel in dem land zu Hessen. Da er des land zů Sachsen fast vmb vnd vmb wandert hat, vnd fast wol bekannt was, das er sich mit seiner büberei nit mer wol vszbringen mocht, da thet er sich in das Land zů Hessen vnd kam geen Markburg an des langrauen hof, vnd der herr fragt in, waz er für ein abentürer wer? Er antwurt vnd sprach: "gnediger herr, ich bin ein kunstner, desgleichen in vil landen nit gefunden würd, dann mein arbeit vbertrifft ander arbeit weit." Der lantgraf sprach: "lasz vns etwaz von deiner arbeit sehen." Vlenspiegel sprach "gnediger herr, ia," vnd hat etlich thüchlin vnd künestück, die er in Flandern kauft het, die zog er herfür vsz seinem sack, vnd zögt die dem landgraven. Die gefielen dem herren so wol, vnd sagte zů im: "lieber meister, was woͤllen ir nemen, vnd woͤllen vns vnsern sal vermalen vnd auf das allerkostlichst machen als ir ymer künden?"

LEBEN VON DIL VLENSPIEGEL.

III.

(*Answer* SIX *of the following questions.*)

1. Was ist unter "Heldensage" zu verstehen?

2. Worin weicht die norwegisch-isländische Sagengestaltung Sigurds hauptsächlich von dem deutschen Sigfridmythus ab.

3. Nennen Sie die Hauptquellen der märchenhaften Sagen von Dietrich.

4. Inhaltsskizze und Bedeutung der Wielandsage.

5. In welchem Verhältnis steht Klopstock und Wieland zum Göttinger Dichterbund?

6. Was ist das Charakteristische an Vossens Idyllen?

7. Welche Stellung nimmt Lessing zu der Sturm und Drangperiode ein?

8. Wie weit haben Rousseausche Ideen die Dichtungen dieser Zeit beeinflusst?

9. Welches ist der Lebenslauf Klingers?

## FOURTH PAPER—Three Hours.

### I.

1. Die wesentlichen Kennzeichen der Romantik.

2. Welche Umstände trugen zur Ausbildung der romantischen Schule bei?

3. Geben Sie ein Bild von Aug. Wilh. Schlegels litterarischem Wirken und seiner Bedeutung für die deutsche Litteratur.

4. Welchen Anteil hatten die Frauen an der Entwickelung der romantischen Bewegung?

5. Charakterisieren Sie Ludwig Tiecks dramatische Entwickelung.

6. Skizzieren Sie Heinrich von Kleists Leben und Dichtung.

### II.

[ALTERNATIVE PAPER.]

1. Schildern Sie die politischen und litterarischen Ereignisse, die Goethes Jugendjahre (bis zu seiner Leipziger Studienzeit) bestimmten.

2. Worin liegt der Grund der ausserordentlichen Wirkung des Wertherromans auf seine Zeit?

3. Welches Problem behandelt der *Torquato Tasso*?

4. Der Aufbau der Handlung im *Egmont*.

5. Was wissen Sie ueber die Entstehung des *Faust*?

6. Geben Sie eine Skizze von Goethes epischen Gedichten und Romanen.

### III.

Write an essay in German on one of the following subjects:

(*a*) Welchen Einfluss hatte der dreissigjährige Krieg auf das politische und litterarische Leben Deutschlands?

(*b*) Die kulturgeschichtliche Bedeutung des Krieges.

(*c*) Wie ich mir das Glück denke.

# III.—FOR DEGREE OF B.Sc.

## *A.—IN PURE SCIENCE.*

### FIRST EXAMINATION.

Mathematics.—See pp. 512—515.
Natural Philosophy.—See pp. 515—519.
Chemistry.—See pp. 577—578.
Botany.—See pp. 575—576.
Zoology.—See p. 576.

### FINAL EXAMINATION.

Mathematics.—See pp. 528—532.
Natural Philosophy.—See pp. 532—536.

### PHYSIOLOGY—Three Hours.

*Only* FIVE *questions to be answered.*

1. Give an account of the researches that have recently been made on the suprarenal bodies, and indicate what is known as to the nature of their internal secretion.

2. Trace the paths of sensory impressions from the retina to the cerebral cortex.

3. Give an account of the inervation of the middle ear.

4. Describe the olfactory epithelium, and state what is known as to any relations that have been observed between the chemical constitution of substances and the odours they excite.

5. What do you understand by summation and differential tones? What evidence has been offered as to the existence of such tones, and what is the bearing of this evidence on the theory of hearing propounded by Helmholtz?

6. Discuss critically the two theories of colour proposed by (*a*) Young and Helmholtz, and (*b*) Hering.

7. Give a short account of the contributions to physiological science made by either Claude Bernard *or* Du Bois Reymond.

### BOTANY—Two Hours.

1. Describe the chief modes of disposition of vascular tissues in stems. State which of these you consider best fitted for plants with an unlimited branching and increasing leaf area.

2. Give a general account of any one natural order of gamopetalous dicotyledons as regards vegetative habit, floral construction, fruit, and geographical distribution. Illustrate by plants of the British flora, and suggest also other orders related to the one you select.

3. Describe the effect of winds as influencing the structure and dispersion of plants.

4. What are enzymes? Where are they found? What is their use?

5. Discuss the nitrogenous supply of plants growing in the open.

6. Give a general classification of the fungi, quoting examples of the several families.

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## *B.—IN ENGINEERING.*

### FIRST EXAMINATION.

## MATHEMATICS.

### FIRST PAPER—Three hours.

*Candidates may obtain* FULL *marks by doing correctly about two-thirds of this paper.*

1. State and prove De Moivre's theorem:

Express $\sin^8\theta$ as a sum of cosines of multiples of $\theta$.

2. Sum the series

(i) $\sin\theta + \sin(\theta+\alpha) + \sin(\theta+2\alpha) + \ldots + \sin\{\theta+(n-1)\alpha\}$.

(ii) $\sin\theta + 2\sin(\theta+\alpha) + 3\sin(\theta+2\alpha) + \ldots + n\sin\{\theta+(n-1)\alpha\}$.

3. Show that the equation $ax+by+c=0$ represents a straight line, and state the geometrical meaning of the constants when

$$a=\cos\alpha, \quad b=\sin\alpha, \quad c=-p.$$

A straight line $OAB$ is drawn through the origin and cuts the straight lines given by the equations

$$2x+y=3; \quad 2x-y=3$$

at the points $A$ and $B$ respectively. Find the equation of the locus of the middle point $AB$ for all positions of $OAB$, and state the name of the curve which forms the locus.

4. Find the equation of the circle whose centre is at the point $(a, b)$ and whose radius is equal to $c$.

The tangent at the point $P$ on the circle whose equation is

$$x^2+y^2=c^2$$

meets the axis of $x$ at the point $T$. Find the equation of the locus of the middle point of $PT$ for all positions of $P$, and sketch the graph of the equation.

5. Define an ellipse, and from your definition show that its equation may be written

$$\frac{x^2}{a^2}+\frac{y^2}{b^2}=1.$$

If $P$ is any point on an ellipse of eccentricity $e$ and if $S$, $S'$ are the foci, show that

$$\tan\tfrac{1}{2}PSS' \times \tan\tfrac{1}{2}PS'S = \frac{1-e}{1+e}.$$

6. Find the equation of the tangent at $(x_1, y_1)$ to the conic whose equation is
$$ax^2 + by^2 = 1.$$

If $SY$ is the perpendicular from the focus $S$ on the tangent at $P$ to an ellipse, and if $CD$ is the radius parallel to the tangent, show that
$$SY^2 : CB^2 = SP^2 : CD^2,$$
$C$ being the centre of the ellipse and $B$ one end of the minor axis.

7. Define the differential coefficient of $f(x)$ with respect to $x$ and from your definition find the differential coefficient of $x^n$.

Find the derivative of
$$\frac{4x^2 - 12x + 5}{x^2 - 3x + 2},$$
and draw the graph of the function.

8. Assuming $f(x)$ and its derivatives to be continuous functions, investigate the conditions that $f(a)$ should be a maximum or a minimum value of $f(x)$.

$AB$ is a fixed diameter of a circle of radius $a$ and $PQ$ a chord perpendicular to $AB$; find the maximum value of the difference between the two triangles $APQ$, $BPQ$ for different positions of the chord $PQ$.

9. Find an expression for the radius of curvature of a curve whose equation is in the form $y = f(x)$, and deduce or derive independently the value of the curvature when the second and higher powers of $f'(x)$ may be neglected.

Show that when the tangent at one end of the minor axis of an ellipse and the minor axis itself are taken as axes of coordinates, the equation of the ellipse is
$$a^2y^2 + b^2x^2 - 2a^2by = 0,$$
and find the radius of curvature at the end of the minor axis.

10. If $f(x)$ and $f'(x)$ are continuous from $x = a$ to $x = b$, show that
$$f(b) = f(a) + (b - a)f'(c),$$
where $c$ lies between $a$ and $b$.

Assuming Maclaurin's theorem, find the first three terms in the expansion of $\tan x$ in powers of $x$.

11. State and prove the rule known as "integration by parts."

Evaluate the following integrals:
$$\text{(i)} \int \frac{dx}{x^2 + 2x + 5}; \quad \text{(ii)} \int \frac{dx}{x\sqrt{(4 - x)}}; \quad \text{(iii)} \int e^{-3x} \cos 4x \, dx.$$

12. If $A$ is the area between the graph of $f(x)$, the $x$-axis, a fixed ordinate, and the variable ordinate $f(x)$, show that
$$\frac{dA}{dx} = f(x).$$

Trace the curve whose equation is
$$a^4y^2 = x^4(a^2 - x^2),$$
and find the whole area enclosed by it.

13. Investigate a formula for finding the superficial area of a surface of revolution about the axis of $x$.

Find the surface of a spherical cap of height $h$, the radius of the sphere being $R$.

### SECOND PAPER—Three hours.

1—12. See pp. 513—515.

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## NATURAL PHILOSOPHY.

### FIRST PAPER—Three Hours.

(Note.—*Candidates are requested not to attempt more than* EIGHT *of the following questions.*)

1. State Newton's Second and Third Laws of Motion.

Show how they may be applied in the following case: Two masses $m_1$ and $m_2$ are connected by an elastic string whose tension is proportional to its extension; $m_1$ is held in the hand and $m_2$ hangs at rest. If $m_1$ is then let go discuss the motion up to the instant at which the string regains its natural length and state the relative velocity of the masses at that instant.

2. Find expressions for the radial and transversal accelerations of a particle moving in a plane, and show that if the acceleration is directed to a fixed point the radius vector from that point sweeps out equal areas in equal times.

If a particle moves in an ellipse under an acceleration directed to a focus show that the curvature of the hodograph is constant and that the hodograph is therefore a circle. Hence prove that the velocity in the ellipse may be decomposed into two components inclined at the same angle as the radius vector and the major axis of the ellipse; of these components one is constant in magnitude and direction and the other constant in magnitude but always perpendicular to the radius vector.

3. Define a moment of inertia and prove the theorem connecting the moment of inertia about any axis with that about a parallel axis through the centre of gravity.

Find the moment of inertia of a triangular lamina of uniform density about its base. At what point in the base is the base a principal axis?

4. Establish the equations for the motion of a rigid body free to rotate about a horizontal axis.

An iron cylinder whose length is 1 foot and whose sectional diameter is 6 inches rolls from rest down a plane inclined at 30° to the horizon. If the density of the iron is 7·6 find the distance traversed and the kinetic energy gained in 5 seconds; state also the ratio of the translational to the rotational energy.

5. Reduce a given system of forces acting on a rigid body to a single force and a single couple.

$OA$, $OB$, $OC$ are conterminous edges of a cube, and $CD$, $EF$ are edges parallel to $OB$ and $OC$ respectively; find the resultant of a system of three forces completely represented by $OA$, $CD$, $EF$.

6. Find the attraction of a thin circular disc of gravitating matter at any point on a line through the centre of the disc perpendicular to its plane.

Find the attraction of a uniform right cone (i) at its vertex, (ii) at the centre of its base.

7. Define elasticity of a body. Specify stress and strain for the case of a twist of a wire or rod about its axis.

Express Young's modulus in terms of the bulk-modulus and the rigidity-modulus. Find also the modulus for simple longitudinal strain when there is no change of lateral dimensions.

8. What is meant by the flexural rigidity of a beam in the plane of bending? Establish, on the ordinary assumptions, the relation between the couple of bending and the flexural rigidity.

A uniform straight beam of rectangular section is supported at its ends on props on the same level, and is slightly bent by its own weight and a weight $W$ attached at its middle point. Find the droop at the middle point of the beam.

9. Show that in a fluid at rest the pressure at any point is the same in all directions, and that the rate of change of pressure in any direction is equal to the component in that direction of the external force per unit volume of the fluid.

Write down and integrate the equation connecting the pressure $p$ at the height $x$ above the earth's surface, assuming the atmosphere quiet and of uniform temperature.

10. Prove that the righting couple due to the wedges of immersion and emersion when a floating body is heeled over through a small angle is proportional to the moment of inertia of the plane of flotation about its horizontal axis; hence if $G$ is the centre of gravity of the floating body, and $B$ the centre of buoyancy, give Atwood's value of the total righting moment.

Find the condition for the stability of a solid isosceles prism floating with its base uppermost.

11. Show that the velocity of propagation of a bend of any shape along a flexible cord is $\sqrt{(T/m)}$, where $T$ is the stretching force and $m$ the mass per unit length of the cord.

Find the frequency of a note given by a wire 2 metres long and weighing $2\frac{1}{2}$ grammes per metre when stretched by a weight of 30 kilogrammes.

12. Prove by any process the equation

$$\frac{\partial p}{\partial v_Q}=\frac{C_p}{C_v}\frac{\partial p}{\partial v_T}$$

where $C_p$, $C_v$ are the specific heats of the working substance, pressure constant and volume constant respectively, and $\partial p/\partial v_Q$, $\partial p/\partial v_T$ the rates of variation of pressure with volume when no heat passes and when the temperature is constant respectively.

Hence find the integral equation of the adiabatic lines for a gas.

13. Prove (preferably by an indicator diagram process) the equation

$$\frac{\partial L}{\partial T}+c-h=\frac{L}{T}$$

for a saturated vapour. By Regnault's expression for the total heat of steam show that at temperatures for which that expression holds $h$ is negative. Explain the precise physical meaning of this result.

### SECOND PAPER—Three Hours.

1-18. See pp. 517—519.

Chemistry—See p. 577.

## *FINAL EXAMINATION.*

## ENGINEERING.

### FIRST PAPER—Two Hours and a Half.

1. Give an account of the properties and uses of wrought iron and explain its advantages and disadvantages in various cases as compared with mild steel.

2. Sketch and describe the puddling furnace, and give an account of the processes by which wrought iron is manufactured from grey pig iron.

3. What effects are produced on mild steel by the presence in small quantities of each of the following: Chromium, Nickel, Manganese, Phosphorus, Sulphur, Carbon?

4. Compare and contrast copper with wrought iron in respect to the chief properties on which its applications in engineering work depend, and state some of its chief applications.

5. Describe the modern process for the preparation of Aluminium from Bauxite; and give a brief account of the properties of Aluminium on which its application to engineering work depend.

6. Explain the nature and purposes of seasoning of timber, and describe the various methods usually employed.

7. Give a short account of the manufacture of Portland cement, and explain the various tests to which the cement is subjected.

8. The pitch of the screw of a screw-jack is $\frac{1}{4}''$, and it is used to raise 5 tons. What pull will be required on the end of the lever 2·5 feet in length, assuming an efficiency of 30%?

9. Define "Instantaneous Axis."

Two straight guides make an angle of 60° with each other. Sliders on these guides are connected by a link $AB$, 3 feet in length. If the end $A$ has a simple harmonic motion of 2 feet amplitude (the middle point of its motion being 3 feet from the intersection of the guides), draw a curve showing the velocity of the joint $B$ in its different positions. A few points in the curve should be determined.

### SECOND PAPER (Alternative to Third Paper).

### Two Hours and a Half.

1. Deduce Simpson's rule, the trapezoidal rule, and the middle breadth's rule for areas, and apply them to calculate the area of a strip of land across which the following eleven measurements have been made at intervals of one chain:—0, 12, 18, 23, 30, 36, 43, 54, 60, 51, 44.

2. A reservoir has a depth of 12 ft., a rectangular base of 50 ft. by 30 ft., and side slopes of $1\frac{1}{2}$ to 1. Determine the capacity of the reservoir. Show by a curve how the volume of water in the reservoir varies with the depth. Give the equation to the curve.

3. In a traverse survey the distances $AB$, $BC$, and $CD$ are found to be 1537, 1462, and 987 links respectively. $AB$ bears S. 36° 27′ E., and the angles $ABC$ and $BCD$ are 110° 23′ and 118° 12′ respectively. Determine, by the method of latitudes and departures, the length and bearing of $AD$.

4. Make a sketch of a theodolite telescope in section, showing how the image is formed. Explain the nature and use of the eye-piece, and what you understand by the "line of collimation."

5. Describe, with the aid of sketches, the Dumpy or Gravatt's level, state the essential conditions of its adjustment with a view to accuracy and convenience, and explain how these adjustments are made.

6. Obtain a formula for the "error due to curvature." At what distance can a light, 120 feet above the sea level, be seen from a ship's bridge when the eye of the observer is 40 feet above the sea level; taking account of refraction?

In taking a series of check levels, for what reasons is it advisable to place the instrument mid-way between the fore staff and the back staff?

7. Describe the method of setting out circular railway curves by means of angles at the circumference and also one other method. Discuss their relative merits, and deduce the necessary formulas for the application of each.

8. Discuss the various causes which tend to cause a train to leave the rails when on a circular curve, and explain the means used to counteract this tendency.

## THIRD PAPER (ALTERNATIVE TO SECOND PAPER).

TWO HOURS AND A HALF.

*Not more than* SEVEN *questions to be attempted.*

1. Explain how the indicated horse power of an engine is determined. Illustrate your answer with reference to a double-acting, single-cylinder, condensing steam engine having a 20″ cylinder, 30″ stroke, $3\frac{1}{2}$″ piston rod, and working at 150 revs. per min., sketching probable indicator diagrams and showing how the mean effective pressure may be obtained from them. Explain what the term "mean effective pressure" signifies.

2. Investigate an expression for the density of saturated steam, and state why the method of calculation is considered more trustworthy than direct experiment.

3. Describe what is meant by the "influence of the cylinder walls" in a steam engine, and explain in connection therewith the advantages of high speed, superheating, steam jacketing, and multiple expansion.

4. Explain how a supply of coal should be sampled, and how its calorific value may be determined experimentally, and by calculation from its composition.

5. Define "entropy," and sketch a temperature entropy diagram for water at the boiling point and for saturated steam at various pressures. Show how quantities of work are represented on the diagram, and illustrate by reference to the diagram the comparative efficiencies of a steam engine working on the Carnot cycle and of one working on the Clausius-Rankine cycle, between the same temperatures; the isothermal operation at the upper temperature being, in each case, the evaporation of $\frac{9}{10}$ of the water present in the cylinder.

6. Describe the throttling calorimeter, explaining the principle of its action, the mode of reducing the results, the assumptions involved in the calculations, and the corresponding sources of uncertainty. What precautions must be taken in sampling the steam.

7. Explain what is meant by the term *brake horse power* of an engine, and describe the process of determining it in the case of an ordinary steam engine of about 20 horse-power. Discuss the use of dash pots in connection with brakes.

8. In an engine worked by compressed air, air is admitted at a pressure of 4 atmospheres and at a temperature of 60° F. during $\frac{1}{3}$rd of the stroke, expanded adiabatically, and exhausted into the atmosphere. Determine the work done per lb. of air and the temperature at the end of the expansion. (At atmospheric pressure and temperature of 60° F. the specific volume of air may be taken at 13 cu. ft.)

9. Assuming the resistance to be overcome by a single cylinder steam engine to be constant, explain, in general terms, how to determine the fluctuation of velocity of the engine from the indicator diagram, the dimensions of the fly-wheel, and other necessary data.

A fly-wheel 6 ft. in diameter and 8″ breadth of rim is required for the same effectiveness as one 8 ft. in diameter, 6″ broad, and 4″ thickness of rim; determine approximately the thickness of the rim necessary for the former, and explain how the calculation could be done accurately, neglecting the effect of the arms and nave in both cases.

## FOURTH PAPER—THREE HOURS.

1. Classify framed structures in respect to the arrangement of the constituent members, and discuss the merits and demerits of each class.

A bridge truss $ABCDEF$ has a horizontal member $ABCD$, composed of three pieces, each 8 feet in length, jointed together at $B$ and $C$. $BF$ and $CE$ are vertical struts, each 4 feet long, the ends $E$ and $F$ being connected to $A$ and $D$ by ties. Determine the stresses in the various members when the truss is supported at the ends, and loaded with half a ton per foot run over $AD$ and a concentrated load of 1·5 tons at $B$.

2. The floor of a room 15 feet wide is carried upon timber joists, 3 in. broad by 9 in. deep, spaced 12 in. apart between the centres. Determine the maximum unital stress in the joists, and the deflection at the centre of the room, when the load upon the floor is equivalent to 120 lbs. per square foot. Prove the formulas you use. [Assume $E = 1{,}400{,}000$ lbs. per sq. inch.]

3. The platform of a suspension bridge of 100 ft. span is supported by two steel cables, one on each side; the ends of each being attached to

points which are respectively 10 feet and 40 feet above the lowest points of the cables. The load upon each of the cables being 500 lbs. per foot measured horizontally, determine the greatest and least tensions in the cables, and obtain the equation to the curve in which they hang.

4. Write down the "equation of three moments" for continuous beams carrying uniformly distributed loads.

A continuous beam of uniform section is supported upon three supports at the same level, forming two spans each of 60 feet, and carries a uniformly distributed load of 1·5 tons per foot run. Sketch the diagrams of shearing force and bending moments for the beam.

5. Explain, on the principles laid down with respect to similar structures, the bearing of the length of spans of railway bridges on their general design. Show, in connection therewith, the advantages of cantilever and central girder designs for very large spans.

6. Determine the relative weights and stiffnesses of two shafts of the same strength and length, one of which is solid and 15 in. in diameter, and the other hollow and having an external diameter of 18 in. Prove the formulas you use for stiffness and strength, explaining the assumptions involved.

7. A 3 in. fire-hose, 200 feet in length, terminates in a 1 in. nozzle. If the water enters the hose from a large pipe in which the head is 300 feet, determine:

(*a*) The velocity with which the jet will issue from the nozzle.

(*b*) The force with which the fireman will require to hold the nozzle.

8. Investigate an expression for the efficiency of a jet wheel having flat radial vanes in terms of the ratio of speed of vane to speed of jet, neglecting friction and assuming the jet to impinge normally to the vanes. Construct a diagram showing what becomes of the energy of the jet for any ratio of speeds.

9. State and explain the conditions that would require to be accomplished in the working of a turbine in order to attain unit efficiency, and explain in what respect the condition cannot be attained in the simple reaction turbine (Barker's Mill). In connection therewith, explain the chief features of the design of a modern turbine of any one of the kinds now in common use.

## ENGINEERING DRAWING AND DESIGN.

### FIRST PAPER—THREE HOURS.

(*Only* SIX *questions are to be attempted.*)

1. If the accompanying figure $ABCD$ is a jointed frame rotating, in the plane of the paper, about a fixed disc $O$, in such a way that bars $AB$ and $CD$ are always touching its circumference while bar $AD$ slides backwards and forwards through a sleeve at a fixed point $E$. Draw the curve traced by point $P$ during one complete rotation of the frame, and show how to draw the tangent and normal at any point of the curve.

2. Show, by the aid of sketches, how you would proceed

(*a*) to reduce an irregular pentagonal plane figure to a square of the same area;

(*b*) to determine the projections of two intersecting lines containing an angle $\theta$ and inclined to the horizontal plane at angles $\alpha$ and $\beta$ respectively;

(*c*) to determine the angle between two oblique planes intersecting the ground line in one point.

3. Four spheres having diameters of 2″, 2″, 1½″, and 1″, respectively, are in contact with one another, the first three resting upon the horizontal plane and the fourth resting on the top of them; draw their projections.

4. A rectangular prism, $3'' \times 2'' \times 0{\cdot}5''$ thick, has a 1½″ hole bored through it; the axis of the hole passing through the centre of, and being perpendicular to, its largest faces. Draw a plan and elevation of the prism when suspended from one of its corners.

5. A 2″ sphere rests upon one of the circular edges of the hole of the prism of question 4. Draw the projections of the sphere and prism when one of the 2″ edges rests upon the horizontal plane, and the 3″ edges slope upwards from left to right at an angle of 30° and the centre of the sphere is 2½″ from the vertical plane. Also draw the shadow of the sphere on the prism and of the sphere and prism on the planes of projection, when the rays of light come from left to right and the projections of a ray make angles of 45° with the ground line.

6. Draw the projections of the curve of intersection of the cylinder and sphere shown on the accompanying sheet, and draw a development of the cylindrical surface.

7. Make an isometric projection of the object shown on the accompanying sheet.

### SECOND PAPER—THREE HOURS.

1. A single-cylinder, double-acting steam engine is to develop 65 I.H.P. at a piston speed of 380 feet per min., with an initial pressure of 120 lbs. per sq. in. absolute, the cut-off being at 0·66 stroke and the stroke 1·5 times the cylinder diameter.

Assuming a back pressure of 3·5 lbs. per sq. inch absolute, a diagram factor of 0·75 and a clearance volume equal to 10 per cent. of the volume swept through by the piston, determine the stroke, diameter of piston, and number of revs. per min. Also determine suitable dimensions for the steam and exhaust ports, the thickness of the cylinder, and length between the covers.

2. For the engine referred to above, assuming the angle of lead 5°, the release at 0·96 stroke and length of connecting rod equal to five cranks, determine, by the method of harmonic diagrams, the angle of advance of the eccentric, the points of compression, and laps and lead of the valve. Also draw the probable forms of the indicator diagrams.

3. Design and make detailed drawings of one of the following:

(*a*) The cylinder of the engine referred to in Question 1, with piston and slide valve complete.

(*b*) The shell of a marine boiler having a diameter of 12 ft. 6 in., a length of 10 ft., and suitable for a working pressure (gauge) of 155 lbs. per sq. in. State the strength you assume for the steel plate and rivets, and the factors of safety you calculate upon having.

(*c*) A steel girder of the plate-web type to carry a uniformly distributed load of 2·25 tons per foot run and having a clear span of 56 ft.

## ENGINEERING LABORATORY WORK—MECHANICAL.

(*a*) *Answer question* 1 *or perform the experiment allotted to you by ballot.*

(*b*) *Describe the apparatus you would use, the methods of measurement, the sources of errors, and the precautions you would take in carrying out* TWO *of the other experiments.*

1. Give a full account of how you would carry out a complete boiler test, and show how you would calculate the efficiency of the boiler from the data obtained.

2. Find the Young's Modulus of the given specimen in the 100 ton testing machine.

3. Obtain a stress strain diagram of the given specimen in the 10 ton testing machine, and draw the curve of stress on the reduced sectional area.

4. Make a torsion test of the given specimen, and investigate the influence of removing the stress twice at different permanent strains during the test.

5. Find the rigidity modulus of the material of the given spiral spring by means of the Ewing Extensometer.

6. Test and report on the tensile elastic properties of the given wires.

7. Test the calorific value of the given sample of coal by the Thomson Calorimeter.

8. Find the calorific value of coal gas by the Gas Calorimeter.

9. What precautions are necessary to obtain good indicator diagrams from a gas engine?

Find the combined efficiency of the gas engine and dynamo for electrical outputs of 40 amperes at 100, 120, and 140 volts.

10. Find the I.H.P. and the mechanical efficiency of the oil engine when working at about 7 B.H.P.

11. Investigate the law of flow of water through a submerged circular orifice.

12. Determine experimentally the law governing the friction of a cord slipping on a drum.

13. Find the connection between the quantity of water flowing through a diaphragm orifice placed across a water pipe and the difference of pressure on the two sides of the orifice.

14. Determine the Young's Modulus of the specimen supplied by means of a bending test.

15. Determine by means of the mercury gauge the errors of the pressure gauge submitted, and draw a curve of errors.

16. Determine by means of the dead-weight pressure gauge tester the errors of the pressure gauge submitted, and draw a curve of errors.

## ENGINEERING LABORATORY WORK—ELECTRICAL.

(*a*) *Perform the experiment allotted to you by ballot.*

(*b*) *Describe the apparatus you would use, the method of measurement, the sources of errors and the precautions you would take in carrying out* TWO *of the other experiments.*

1. You are given a Clark cell, a sensitive ammeter, a few accumulators, a galvanometer, and a length of uniform copper wire. How would you measure by means of these the specific resistance of copper?

2. Obtain by Hopkinson's method a B.-H. curve for soft iron. How would the curve differ if the specimen were hard-steel?

3. Describe in detail how you would obtain an external characteristic for a shunt dynamo.

You are required to obtain the combined efficiency of the gas engine and dynamo for outputs of 40 amperes at 100, 120, and 140 volts.

4. Obtain by Crompton's potentiometer the E.M.Fs. of the given primary batteries, and show how by means of it you would measure resistance and current.

5. Find the internal resistance of two primary batteries, being given a voltmeter and a resistance box.

6. Find the capacity of the given condenser by a ballistic method, a Hibbert's induction standard being given.

7. Standardise the Kelvin centiampere balance by copper electrolysis.

## NAVAL ARCHITECTURE.

### STABILITY AND ROLLING—Three Hours.

1. Describe how to obtain a curve of statical stability for a ship in fully laden condition without using an integrator.

2. Define dynamical stability; state and prove the relation that exists between the statical and dynamical arms.

3. Describe a system of standardising stability due to form; how can the necessary data be deduced from cross curves of stability?

4. Define surface of buoyancy, and prove that it is a closed figure with no re-entering parts.

5. From a metacentric diagram, show how to obtain for any displacement the radius of curvature of the surface of flotation in the upright, and show that when the tangents to the loci of the metacentre and centre of buoyancy are parallel, the radii of curvature of the surfaces of flotation and buoyancy are equal.

6. Write down and explain the equations for unresisted and resisted rolling in still water, and give the general solution of the former.

7. What is a curve of extinction of rolling? How is it arrived at? What can be learned from it, and how?

8. What resistance to rolling do ships offer? What special means to minimise rolling are taken, and how does each act?

9. Describe how to conduct experiments to determine the comparative effect in diminishing rolling of various shapes of water chamber.

From the results of these experiments, how is the best form obtained?

10. Prove the relation that exists between the centres of buoyancy of complementary displacements, and show how, with cross curves of stability up to 90°, we can construct righting arm curves up to 360°.

## RESISTANCE AND WAVES—Three Hours.

1. Explain fully how the I.H.P. required to propel a ship of given dimensions and form can be predicted by means of model experiments and calculations. Describe the experimental apparatus.

2. What is an Admiralty coefficient? How is it obtained and plotted in curves? Illustrate the form of these curves, and give values of this coefficient for various types of ship at full speed on trial. Give length of ship, block coefficient speed, and Admiralty coefficient.

3. Name and define the various resistances that go to make up the Screw Horse Power, and give ratio values for them in any ship you know. If you are given the I.H.P. curve for a vessel, show how to obtain the curve of Indicated Thrust, and thence the value of the dead-load frictional resistance.

4. What are progressive speed trials? How should they be conducted, and what information can be obtained from them? Give an accurate method of eliminating the tide effect on the speed.

5. A vessel of 290 ft. B.P. is lengthened by 12 ft. amidships where the girth to the L.W.L. is 60 feet. Assuming a propulsive coefficient, what addition would this make to the I.H.P. on account of frictional resistance, the vessel's speed remaining 16·5 knots? How may this affect the wave-making resistance, and why?

6. State and prove Froude's Law of Comparison, and show that for a given form a surface of resistance can be constructed from results obtained with one set of dimensions at various speeds.

7. State the trochoidal wave theory as applied to sea waves, and show how to construct a wave profile.

8. Show that on any trochoidal subsurface of a wave the pressure is uniform.

9. Obtain the relation that must exist between the radii of the tracing circles of any two subsurface trochoids, in order that the flow of the stream between them may be continuous.

10. Describe the wave systems that accompany a ship. Explain why the passage of a ship through water causes waves.

## STRENGTH—Three Hours.

1. Classify and describe the principal stresses a ship experiences, and state what parts of the structure withstand them.

2. Explain fully how the positions and magnitude of the maximum Shearing Force and Bending Moments are found.

3. Prove $p=\frac{Mu}{I}$, and explain the notation. State whether the value of $p$ so obtained for a ship is absolute or comparative, and give reasons for your answer.

4. How is the Moment of Inertia of a ship's section calculated with accuracy when the vessel is subject (1) to a logging, (2) to a sagging, bending moment?

5. What is the relative value of the stress intensity on the stringer of decks $A$ and $B$ of a vessel of rectangular section, the sagging moment being the same in both cases? What would be the relative increase of stress if deck $B$ were cut through? The vessel's breadth is 20 ft.; depth to deck $A$, 8 ft.; depth to deck $B$, 15 ft.; bottom plating, $\frac{3}{4}$ in.; side plating to deck $A$, $\frac{3}{4}$ in.; 'tween deck side plating, $\frac{3}{8}$ in.; deck plating $A$, $\frac{1}{2}$ in.; deck plating $B$, $\frac{3}{8}$ in.; the side plating is connected to the bottom plating and to deck $A$ by single angles 4 in. × 4 in. × $\frac{1}{2}$ in., and to deck $B$ by single angles 3 in. × 3 in. × $\frac{3}{8}$ in.

6. Define Modulus of Elasticity for tensile and shearing stress. Sketch a stress strain diagram for a specimen of mild steel under a pull stress, and show the change in shape of the specimen during the operation. Explain the diagram, giving figures for the ordinates at the important points.

7. Discuss the effect of heaving on the maximum Bending Moment of a full-ended ship as compared with its effect on a five-ended one.

8. When a ship is being slowly launched down ways, and is on the point of lifting about the fore end of the ways, how would you determine the maximum bending moment for that position?

9. Assuming the formula for deducing the intensity of shear stress from the total shearing force, indicate the form of the curve of stress intensities for a beam of $I$ section. If the shearing force be 10 tons, and the beam 12 in. × 6 in. × $\frac{1}{2}$ in., give figures for the ordinates of that curve.

10. Obtain the curve of Bending Moments for a barge of uniform rectangular cross section when on the crest of a versed sine wave of her own length and 6 ft. in height. Her dimensions are: $L=140$ ft., $B=20$ ft., $D=10$ ft., $d=5$ ft. in still water. The cargo is stowed amidships over a length of 70 ft., and the weight of hull is 150 tons, uniformly distributed over the length.

11. What power is employed in riveting machines in shipyards? Describe these machines, and state what parts of a ship's structure can be riveted by them. In what way has the demand for large ships operated in favour of mechanical riveting?

12. The shell plates of a ship amidships are 54 in. wide × $\frac{1}{2}$ in. thick, and double riveted at laps and butts. Find the relative strengths across the various probable lines of fracture at a buttstrap.

## CALCULATIONS—THREE HOURS.

1. State and prove Simpson's Second Rule for finding plane areas.

2. Find the displacement in tons, and the position of the centre of buoyancy up to the LWL, for the vessel whose half ordinates are [as in data supplied]; stations apart, 30 feet; waterlines apart, 3 feet. Use the method of cross-checking the value you obtain for displacement.

3. Obtain an expression for moment to change trim 1 inch, and prove that a small change of trim takes place about an axis through the centre of area of the waterplane.

4. Obtain a formula for change of draught at the ends of a vessel due to flooding a portion of her length.

5. Define freeboard, and state what determines it. How is the statutory deck line marked? Draw the Plimsoll mark, giving dimensions.

6. How is Net Registered Tonnage measured?

7. Explain "Thames Measurement" and "Linear Rating," giving the formula for them. How is power to carry sail compared in different yachts?

8. In a rectangular vessel of 240 feet length, 21 feet beam, and deep enough not to have the deck submerged when launching, construct her launching curves when the weight is uniformly distributed over the length and her draught after launching is 5 feet; the ways are 2 feet broad with a declivity of $\frac{1}{2}$ inch per foot, and the vessel's keel touches water at the commencement of launch.

9. Find the best dimensions for a steamer to carry 200 tons cargo for 20 hours when you are given the following data: $L=12D$, $B=\frac{4}{3}D$; $d=\frac{2}{3}D$, $C_A=200$ $C_B=\cdot 5$. The machinery develops 15 I.H.P. per ton when burning 1·5 lbs. coal per I.H.P. per hour, and the speed is 20 knots.

10. How are cargo curves constructed on a metacentric diagram, and what use is made of them?

11. Explain how a rudder turns a ship, and obtain an equation for finding the diameter of the rudderstock.

12. Prove $BM = \frac{I}{V}$ and show for both transverse and longitudinal inclinations how to calculate $BM$.

## MARINE ENGINEERING—THREE HOURS.

(*Candidates must not attempt more than* TWELVE *questions,* SIX *being selected from the first* EIGHT *and* SIX *from the remainder.*)

1. Describe the various kinds of furnaces in use in cylindrical boilers, and discuss their relative merits.

2. Enumerate the parts that go to make up heating surfaces in a cylindrical boiler, and state the number of square feet required per I.H.P. with natural and forced draught.

3. What is the use of a combustion chamber? How is it fitted and stayed in a single-ended and in a double-ended cylindrical boiler? What fixes its dimensions?

4. Sketch a safety valve as fitted to a boiler; state the requirements of the Board of Trade and Lloyds regarding the number, position, and testing of these valves.

5. What order is followed in putting the parts of a cylindrical boiler together, and how is the finished boiler tested?

6. State the advantages and disadvantages of tubulous as compared with tubular boilers; describe, with illustrations, the Babcock & Wilcox, Thorneycroft, and Blechynden types.

7. Determine the grate area required for a boiler to supply steam of 160 lbs. pressure to a double-acting cylinder 20 in. diameter and 36 in. stroke, with steam cutting off at $\frac{2}{3}$ stroke, and the engine running at 100 revolutions per minute, when you are given the following data: Feed water is supplied at 180° F.; boiler efficiency, 75%; 20 lbs. air at 60° F. is admitted per lb. coal; the funnel temperature is 600° F.; 20 lbs. coal can be burned per square foot of grate area per hour; the coal efficiency is 15,000 B.T.U. per lb.

8. Explain how the I.H.P. is found in a triple expansion three cylinder engine, and how the cards for the cylinders are combined.

9. Describe, with sketches, the different kinds of main frames or columns used in marine engines, and state of what material they are made.

10. Draw on a large scale views showing the main crosshead with guides, etc., for a large engine. Give figures for the maximum pressure allowed on the guides in different classes of work.

11. How can the maximum and mean twisting moments on a shaft be determined, and how is the diameter of the shaft fixed?

12. What is the function of a thrust block? Sketch the arrangement usually made, and state the maximum pressure usually allowed per square inch of thrust surface.

13. Define pitch, disc area, and slip of a screw propeller, and state how the correct pitch can be measured from a blade. If you have the E.H.P. show how the thickness of the propeller blades can be determined.

14. Draw and explain a Zeuner Complete Valve diagram for a common slide valve.

15. Describe the action of the following valve gears: Stephenson's, Gooch's, Joy's, Fink's.

16. How would you determine the sizes of cylinders to develop a given I.H.P. in a three cylinder triple expansion engine, being given the boiler pressure?

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## ELECTRICITY (PURE AND APPLIED).

1. Find the magnetic potential at any point due to a very short magnet of moment. Find also the field intensity at two points equally

distant from the centre of the short magnet, one situated on the axis the other on the line through the centre perpendicular to the axis, on the assumption that the intensity due to a single pole "varies inversely as the $n$th power of the distance," and hence explain Gauss's method of establishing the law of the inverse square.

2. Explain one method by which you could determine the moment of a bar magnet, knowing the horizontal component of the earth's field intensity. Compare the moments of two thin magnets A and B from the following data: (A) mass 1·42 gms., length 7·3 cms., period of vibration when suspended horizontally in the earth's field 6·56 secs.; (B) mass 1·38 gms., length 7·5 cms., period 10·24 secs. What sources of error are overlooked in your calculations?

3. Explain fully how an electric current may be measured in absolute units by a tangent galvanometer. Given a standard tangent galvanometer, how would you calibrate a galvanometer of unknown law?

4. Describe carefully methods for measuring (1) a very low resistance, *e.g.* a given length of thick copper rod; (2) a moderate resistance.

5. Describe three methods for comparing the electromotive forces of two given cells, pointing out the advantages and disadvantages of each.

6. Find in any manner the magnetic potential and field intensity at a point on the axis of a circular current-carrying conductor. Deduce the field intensity at a point on the common axis of two equal coaxial circular coils conveying equal currents. Explain the advantages of the tangent galvanometer of Helmholtz type.

7. Prove by any method the fundamental theorem of the work done in carrying unit magnetic pole round a circuit carrying a current. Hence find the field intensity at a distance from an infinitely long straight conductor carrying a current. An anchor ring of wood is served uniformly round with copper wire so as to form an endless solenoid. Find the magnetic field at a given point in the interior of the solenoid. Hence show that the field intensity in the interior of a straight solenoid of N turns and length $l$, at a great distance from the ends is $4\pi NC/l$.

8. An alternating machine makes $n$ alternations p. sec. Assuming that the current in the circuit follows the simple harmonic law, find an expression for the whole quantity which flows in a half period from zero current to zero current again. Also show that the mean value of the activity in the circuit is $E^2R/2\,(R^2+n^2L^2)$.

## *C.—IN AGRICULTURE.*

### FIRST EXAMINATION.

Mathematics—See pp. 512—515.

Natural Philosophy—See pp. 515—519.

Chemistry—See p. 577.

Botany—See p. 575.

Zoology—See p. 576.

## FINAL EXAMINATION.

## AGRICULTURE AND RURAL ECONOMY.

THREE HOURS.

(ALL *the questions to be answered.*)

1. Explain what benefits are derived by land from the growth of (*a*) leguminous crops and (*b*) autumn catch-crops. At what period in our ordinary rotations could such catch-crops be grown? Explain how and why they would then be especially useful in maintaining the fertility of the soil.

2. Give a list of the forage crops cultivated in Britain; and state for each (*a*) the most suitable soil, (*b*) the quantity of seed, (*c*) the special merits of each crop and the purposes for which it is best adapted.

3. Describe the management of a flock of mountain ewes for a year, commencing after the weaning of the lambs.

4. Mention conditions that affect the yield and quality of wool. State what properties are most desired in wools, and what defects are most objectionable. Describe the character of the wool of any two sheep-breeds known to you, and state for what purposes these wools are specially suitable.

5. In a 10-acre field of level land, what area would you expect a man and pair of horses to plough in 10 hours?—

(*a*) Lea land, of average firmness, with an 8-inch-broad furrow.

(*b*) Stubble land, 10 inches broad. If the lea land is for oats, what depth would you plough, and why? And if the stubble land was for green crop, what depth would you plough, and why?

(*c*) What area should an expert man sow broadcast with grain per day of 10 hours, using both hands and having an assistant to supply seed?

(*d*) What area can be seeded per day of 10 hours with a drill 7½ feet wide, and drawn by two horses?

(*e*) What area may a pair of horses be expected to drill for potatoes or turnips in a day of 10 hours, where dung is put in the drill and opening only done?

(*f*) What area of turnips may an expert hoer of turnips be expected to single in a day of 10 hours?

(*g*) What area will a two-horse mower cut in 10 hours, cutting one side only?

6. On what class of land would you sow beans? How would you manure them? When would you sow the seed? What quantity of seed would you use? Would you sow the seed broadcast or drilled, and why? How would you harvest the crop? How would you dispose of the straw, and about what number of bushels would you expect per acre?

7. In mid-winter how would you feed a cow (name the breed) in full milk, stating the approximate weight of the different foods used; the state in which you would feed them; the hour at which you would feed them; their total probable cost; and the daily milk yield you might expect?

8. Presuming milk was scarce or dear, how would you proceed to feed a calf from birth to three months old, using any available supplementary food? Name the food or foods you would prefer to use, the number of times you would feed daily, the quantities you would use, and the probable gain you might expect daily, weekly, or monthly (live weight).

## VETERINARY HYGIENE—Two Hours.

1. What is the thorax? Describe it. Mention the bones and their position that enter into its formation. State what organs are situated in it, and the difference between the thorax of the horse and ox.

2. Describe the process of Rumination.

3. Give the different kinds of horse bedding in use in this country, and state what you know of their relative value from a hygienic point of view.

4. What do you understand by the period of incubation of a disease? Give some examples.

5. What is "Hoven in Cattle"? Give its symptoms and causes and the treatment you would adopt.

6. What is a Cold? Give the symptoms in the horse, and the treatment and precautionary measures you would adopt if you suspected that you were dealing with an infectious form of the disease.

## AGRICULTURAL BOTANY.

1. Describe the leaf and the inflorescence of the following Grasses: Nardus stricta; Anthoxanthum odoratum; Lolium perenne; Cynosurus cristatus; Dactylis glomerata. Discuss the agricultural value of each.

2. Suggest a suitable seed-mixture for permanent pasture on loam, and explain your reasons for each item named.

3. Describe in detail the common methods of budding and grafting. Discuss the physiological position of the graft.

4. Give the composition of a full culture solution, and the precautions to be taken to secure a successful culture. Discuss the physiological importance of each item in the recipe.

5. Give a full account of Smut of wheat, its mode of life, and how it may be checked.

## AGRICULTURAL ENGINEERING—Three Hours.

(*Not* MORE *than* NINE *questions should be attempted.*)

1. Explain the meanings of the terms: Work, Energy, Horse-Power. The tractive force along a level road being 12 lbs. per ton, at what speed will a locomotive exerting 360 H.P. draw a train of 250 tons (*a*) along a level road, (*b*) up an incline having a gradient of 1 in 120?

2. Define: Stress, Strain, Young's Modulus, Elastic Limit, Ultimate Strength.

Explain what takes place when a bar of mild steel is subjected to a gradually increasing pull stress until it fractures, and sketch, as nearly as you can to scale, a stress-strain diagram for such a specimen 8 in. in length and 1 in. in diameter.

3. Compare and contrast the laws of dry friction with those of fluid friction. With respect to the flow of water through pipes, explain the formula: $v=50\sqrt{i \,.\, d}$, and apply it to determine the flow, in gallons per hour, through a 24 in. pipe, 8000 feet in length, connecting two reservoirs in which the free water levels have a difference of 40 feet in height.

4. Define: Specific Heat, Latent Heat, Total Heat, Mechanical Equivalent of Heat. The calorific value of a given supply of coal being 13,500 thermal units per pound, how many pounds of water, from and at 212° F., will this coal evaporate per cwt. if 25 per cent. of the available heat be lost by imperfect combustion, etc.?

5. Describe, with the aid of sketches, the construction and setting of a Lancashire boiler. Indicate the course of the gases through the flues from the furnace to the chimney, and explain, briefly, the nature and purpose of the various fittings with which such a boiler is usually provided.

6. Distinguish between "Indicated Horse-Power" and "Brake Horse-Power," and explain, with respect to a steam engine of, say, 20 horse-power, how each of these may be determined.

7. Explain the cycle of operations in an "Otto" gas engine; and describe, with the aid of sketches, the form and method of working of the valves of any gas engine with which you are familiar.

8. A stream of water with a clear fall of 25 feet being available for driving the machinery of a homestead, explain how the energy of the fall may be utilized for this purpose. If the efficiency of the water motor be 65 per cent., how many gallons per minute will be required to yield a clear 16 horse power.

9. Describe, in a general way, the chief features of a continuous current dynamo, and explain how the current is generated.

What indicated horse-power would you expect to be required of an engine to drive a dynamo delivering 5000 amperes at 125 volts at the terminals?

10. Explain the difference, both as regards construction and mode of action, between a plough and a cultivator. Illustrate your answer by sketches.

11. Describe one form of sowing-drill, and explain its mode of action. Sketch one of the sections.

# IV. FOR DEGREES IN MEDICINE AND SURGERY.

## I. PRELIMINARY EXAMINATION.

## ENGLISH.

*Friday, 28th March*, 1902—9 A.M. *to* 12 NOON.

(EIGHT *and not more than* EIGHT *questions are to be answered.* 1 *and* 2 *must be answered, with either* 3 *or* 4, *and either* 5 *or* 6. *The remaining four may be any questions not already answered.*)

1. Write an essay, of from two to three pages, on *one* of the following subjects:

(1) Medical Etiquette.
(2) Advantages and disadvantages of Bicycling.
(3) Free Libraries.

2. Paraphrase:

Now fades the last long streak of snow,
  Now bourgeons every maze of quick
  About the flowering squares and thick
By ashen roots the violets blow.

Now rings the woodland loud and long,
  The distance takes a lovelier hue,
  And drown'd in yonder living blue
The lark becomes a sightless song.

Now dance the lights on lawn and lea,
  The flocks are whiter down the vale,
  And milkier every milky sail
On winding stream or distant sea;

Where now the sea-mew pipes or dives
  In yonder greening gleam, and fly
  The happy birds that change their sky
To build and brood; that live their lives

From land to land; and in my breast
  Spring wakens too; and my regret
  Becomes an April violet,
And buds and blossoms like the rest.

3. Give some account of any *four* of the following: Anselm, Simon de Montfort, The Black Prince, Jack Cade, Francis Bacon, Titus Oates, Sir Robert Walpole, Warren Hastings, Lord Clyde.

4. Give some account of any *four* of the following: The Reign of William Rufus; Edward I.'s Relations with Scotland; Commencement of the Reformation in England; The Pilgrim Fathers; Rebellions of Argyll and Monmouth; Sieges of Gibraltar; Wolfe in Canada; Treaty of Amiens; The First Reform Act.

5. Give the situation of, and one or two particulars about, *six* of the following: Drogheda, Rouen, Leipsic, Brindisi, Aden, Mandalay, Port Nolloth, Falkland Islands, St. Helena, Surat, Pekin.

6. Draw the south coast of England, marking the chief rivers, headlands, bays, and coast towns.

7. Rewrite, so as to correct or improve them, the following sentences, giving reasons for any changes you may make:

(*a*) What really kept him at home was not so much the plague, then raging in the East, more violently than usual, but the still embarrassed state of his fortunes.

(*b*) Even when one has a thorough knowledge of a subject, he can seldom fall into the best plan of communicating it without previous reflection.

(*c*) Neither my habits nor constitution are improved by your customs or climate.

(*d*) With one of these friends he had fallen in love,—a slight and transient fancy, but which had already called his poetical powers into exercise.

8. Give a *general* analysis of the following sentences, and parse the words in italics:

If, *while* this wearied flesh draws *fleeting* breath,
Not satisfied with life, *afraid* of death,
It *haply* by Thy will *that* I should know
Glimpse of delight, or pause from anxious woe;
From *now*, from *instant* now, great *Sire!* dispel
The clouds that press my soul.

9. Take the following words to pieces and indicate the nature of each part: intercessory, unrighteousness, unprofessional, irreparable, eccentric, rehabilitate, maladministration, foretaste, dissimilarity, antithetical.

10. Explain and exemplify the terms *phrase*, *clause*, *finite verb*, *object*, *absolute construction*, *co-ordinate*, *sub-ordinate*.

11. Give an account of any three of the following: Arcite, Duessa, Falstaff, Abdiel, MacFlecknoe, Will Wimble, Rasselas, Tam o' Shanter. Ralph de Wilton, Wing-the-Wind, Alan Breck Stewart.

12. Explain: sugar bounties, cumulative voting, Tammany Hall, to set the Thames on fire, to dine with Duke Humphrey, to rig the market.

LATIN—See p. 475.

GREEK—See p. 478.

MATHEMATICS—See p. 480.

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## FRENCH.

*Tuesday*, 1*st April*, 1902—12 NOON *to* 3 P.M.

### I.

1. Translate into French:

(*a*) Warren Hastings, who was to become one of the greatest of our governors in India, was born at Daylesford in Worcestershire. His ancestors had once been wealthy, and had owned the great house and estate at Daylesford; but they had gradually come down in the world, till the little Warren was sent to the village school. There he showed great talent and industry, and he loved to hear tales of the greatness of his ancestors and how they had fought for the king. At the age of ten, as he was lying by the stream on a bright summer's day, it came into his mind that he would be a great man and would win back the old estate for his family.

(*b*) 1. You must do what you are told.
2. I am afraid we have lost our way.
3. He told me that he could not have come sooner.
4. If he said so, it must be true.
5. Did you lend her this book? No, I gave it to her.

2. Translate into English:

(*a*) Mais le camp de Guillaume était soigneusement gardé contre une surprise, et ses postes s'étendaient au loin. Des détachements de cavalerie avertirent, en se repliant, de l'approche du roi saxon, qui, disaient-ils, accourait en furieux. Prévenu dans son dessein d'assaillir l'ennemi à l'improviste, Harold fut contraint de modérer sa fougue; il fit halte à la distance de sept milles du camp des Normands, et, changeant tout d'un coup de tactique, il se retrancha, pour les attendre, derrière des fossés et des palissades. Des espions, parlant le français, furent envoyés par lui près de l'armée d'outre mer, pour observer ses dispositions et évaluer ses forces. A leur retour, ils racontèrent qu'il y avait plus de prêtres dans le camp de Guillaume, que de combattants du côté des Anglais. Ils avaient pris pour des prêtres tous les soldats de l'armée normande qui portaient la barbe rase et les cheveux courts, parce que les Anglais avaient coutume de laisser croître leurs cheveux et leur barbe.

(*b*) Washington n'avait pas d'ambition; sa patrie eut besoin de lui; il devint grand pour la servir, par devoir plutôt que par goût, et quelquefois même avec un pénible effort. Les épreuves de la vie publique lui étaient amères; il préférait l'indépendance de la vie priveé et le repos de l'âme à l'exercice du pouvoir. Mais il accepta sans hésiter la tâche que lui imposait son pays; et, en l'accomplissant, il ne se permit, envers son pays ni envers lui-même, aucune complaisance pour en alléger le fardeau. Né pour gouverner, quoiqu'il y prit peu de plaisir, il disait au peuple américain ce qu'il croyait vrai, et maintenait, en le gouvernant, ce qu'il croyait sage avec une fermeté aussi inébranlable que simple, et un sacrifice de la popularité d'autant plus méritoire qu'il n'était point dédommagé par les joies de la domination.

## II. GRAMMAR.

1. Form one complete interrogative sentence with each of the following negatives: *ne pas*, *ne point*, *ne personne*, *ne rien*, *ne que*, *ne guère*. Add the English translation of your sentences.

2. Give the French for: *76*, *98*, *Henry the eighth*, *five times five make 25*, *he is ten years old*, *it is only twelve o'clock*.

3. Give the 3rd person singular of the future and the past participle of: *savoir*, *voir*, *envoyer*, *mourir*, *venir*, *falloir*.

4. Give the feminine forms of: *ouvrier*, *empereur*, *baron*, *menteur*, *gras*, *vieux*, *complet*, *meilleur*; and the adverbial forms belonging to: *sot*, *constant*, *lent*, *pire*.

5. Form one sentence with each of the following expressions, and add the English translation of your sentences: *qu'est-ce qui? qu'est-ce que? qui est-ce qui? qui est-ce que? lequel? quoi?*

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## GERMAN.

*Wednesday, 2nd April*, 1902—3 TO 6 P.M.

I. Translate into German:

(*a*) His son, the young Prince Charlie, was a tall, handsome youth, with far more courage and energy than his father had shown in 1715, and though the French government did not help him much, yet he determined to sail to Scotland, even if he landed there with only one follower. On the voyage he was nearly captured by an English man-of-war; but at last he set foot on Scottish soil. The young Prince soon gathered around him an army, which, though it was but small, was full of courage and confidence. The Prince was very much liked by all, and one of the Highlanders said of him, "if this prince once sets his eyes upon you, he will make you do whatever he pleases."

(*b*) 1. They had not seen each other for years.
2. Come in or go out, but don't leave the door open.
3. This is not what you were told to do.
4. He did not believe that he was wrong.
5. Is this not a beautiful story? What do you think of it?

II. Translate into English:

(*a*) Die Römer hatten das Beſtreben, ihr Reich über die ganze Welt auszudehnen. So waren ſie nach und nach bis an den Rhein vorgedrungen, und dieſer bildete die Grenze zwiſchen ihrem Reiche und dem Lande der Deutſchen. Aber das genügte ihnen nicht, auch die Deutſchen ſollten ihrer Herrſchaft unterworfen werden. Deshalb ſandte der Kaiſer Auguſtus mächtige Heere aus, welche Deutſchland erobern ſollten und auch wirklich das Land am Rhein und der Weſer in Beſitz nahmen. Die einzelnen deutſchen Stämme waren zu ſchwach, der römiſchen Uebermacht zu widerſtehen, und mußten es ſich gefallen laſſen, daß die Römer ſchalteten und walteten, als ob ſie die Herren wären. Sie forderten ſchwere Abgaben von ihnen, ſuchten ihnen römiſche Sitten und Geſetze, ja ſogar die römiſche Sprache aufzudrängen. Alles dies war den an unbegrenzte Freiheit gewöhnten deutſchen Männern eine unerträgliche Laſt.

(*b*) Kein Baum iſt in den deutſchen Landen ſo volkstümlich wie die Linde. Mögen auch die Dichter die Eiche als den national-deutſchen Baum beſingen und ſie die „deutſche Eiche“ nennen, das Volk weiß weniger von ihr, und die Linde iſt und bleibt des Volkes Liebling. Davon zeugt ihre häufige Anpflanzung, davon zeugen die deutſchen Volkslieder aller Zeiten. Die Linde lebt in den älteſten Liedern, die anderer Bäume nur nebenbei gedenken, ſie meiſt nicht einmal nennen, weil ſie dem Volke nur eben Waldbäume ſind. Aber die Linde iſt des Volkes Freund und Nachbar, ſein Genoſſe in Luſt und Leid, auf dem Tanzplatze wie auf dem Kirchhofe. Es hegt und pflegt keinen andern Baum ohne beſondern Nutzen, die Linde jedoch pflegt es, weil es ſie liebt und ſchön findet.

### III. GRAMMAR.

1. What cases are governed by the following prepositions: vor, nach, aus, zwiſchen, ohne, durch? Illustrate by sentences.

2. Write out the nominative plural of: das Dach, der Wolf, der Wald, der Nachbar, das Ufer, die Brücke, das Neſt, der Graf, der Landmann, das Bett, die Tafel, der Hund.

3. Write the second person present and imperfect indicative, and the past participle of ausziehen, anbieten, verraten, bitten.

4. What influence is exercised on the order of German words in sentences beginning with weil, obgleich, neulich, denn, wenn, daß? Form one complete sentence, with the verb in a compound tense, for each case. Give also the English translation of your sentences.

5. Place the adjective hoch in its inflected forms before Baum: welch ein — Baum! die Gipfel — Bäume; wir ſahen keine — Bäume; viele dieſer — Bäume; ſie lagen unter — Bäumen; welch ſchöne — Bäume!

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## II. PROFESSIONAL EXAMINATIONS.

## *I.—FIRST PROFESSIONAL EXAMINATION.*

### BOTANY.

*30th September*, 1901.

1. Explain the various ways in which Plants may increase the amount of their organic material.

2. Give a detailed account of the structure and origin of wood-vessels, and suggest what is their use, giving your reasons.

3. Compare the gametophyte of a Moss, a Fern, and a Pine.

4. Write a detailed description of the flower of a Dead Nettle, or of any other native Labiate.

5. Give an account of the structure, nutrition, and propagation of *Eurotium Aspergillus.*

(*Only* FOUR *of the above to be attempted for First Professional.*)
(*Questions* 1-5 *to be answered for First B.Sc.*)
(*No.* 6 *or* 7 *to be answered for M.A.*)

6. Name and give a brief account of the Conifers native in Great Britain.

7. Give an account of the movements of water in living plants.

## ZOOLOGY.

*September*, 1901.

(*Candidates for Medical Degree are only to answer* FOUR *questions.*)

1. What characters distinguish the Arachnida from the Crustacea and Insecta?

2. Describe the life history of Taenia or Distoma.

3. Describe the circulatory system in the Dog Fish.

4. What are the chief differences between Amphioxus and the Fishes?

5. How do the flat worms differ from the higher worms, *e.g.* Earthworm?

6. Give a brief account of the chief divisions of the Protozoa.

## PHYSICS.

1*st October*, 1901.

(*Not more than* FOUR *questions to be answered.*)

1. A clothes line is attached at two points on the same level 8 feet apart, and a weight of 10 lbs. is hung at its middle point, which is depressed 6 ins. Find the stretching force in the cord. If the string is lengthened so as to triple this depression, find the ratio in which the stretching force in the cord is altered.

2. Define specific gravity of a substance, and describe carefully two ways of finding the specific gravity of a liquid.

The stem of a hydrometer contains 50 divisions of equal volume, and the bulb has a volume equal to 500 times that of a stem division.

When the hydrometer is immersed in oil the surface stands 10 divisions below the highest point of the stem; when water is substituted for the oil the surface stands at the foot of the stem. Find the specific gravity of the oil.

3. Give an explanation of the formation of beats when two notes are sounded together under certain circumstances.

How would you determine experimentally the frequency of a note? How could a person whose sense of pitch is defective make use of the observation of beats in order to carry out the experiment?

4. What exactly is meant by the statements : The specific heat of air at constant pressure is ·237 and the latent heat of steam is 537? What other recognised specific heat of air is there, and how is it related to the specific heat above mentioned?

A pound of steam is condensed and cooled to 60° Centigrade. Supposing that all the heat given out goes to warm 2478 cubic feet of air at 10° C., to what temperature would the air be raised? [Air occupies 12·39 cubic feet per pound at 10° C. at the pressure which obtains in the room.]

5. Show the course of the rays through a convex lens forming a magnified image of an object (not a point).

What are the defects of eyesight called long-sightedness, short-sightedness, and astigmatism, and explain how these are corrected by means of lenses?

6. Explain how it is that the platinum wire in an electric cautery is made red hot while the rest of the circuit is comparatively cool. Supposing the battery supplying the current to be of very slight resistance, what increase in the amount of heat developed in a given time in the platinum wire would be produced by doubling the number of cells when all are placed in series? What change would result in the same circumstances from doubling the number of cells, placing the second set in parallel with the first set?

## CHEMISTRY.

*30th September*, 1901.

(*Not more than* FIVE *questions are to be attempted. M.A. and B.Sc. candidates must take questions* 6 *and* 7.)

1. Name and give an account of the properties of the gases which are liberated by the action of heat upon (1) potassium nitrate, (2) ammonium nitrate, (3) lead nitrate.

2. Ten litres of ammonia, measured at normal temperature and pressure, are dissolved in water. Calculate the weight of nitric acid and of sulphuric acid respectively which would be required to neutralize the solution.

[O=16, N=14, S=32.]

3. Describe explicitly the method by which you would proceed to prepare oxygen from potassium chlorate. What would be the effect of mixing manganese dioxide with the chlorate? What explanations of the action of the manganese dioxide have been given?

4. How is iodine obtained from sea-weed? Compare the properties of iodine with those of the other halogen elements.

5. Describe the chemical changes—if any—which occur when sulphuretted hydrogen is passed through aqueous solutions of the following substances: potassium hydroxide, ferric chloride, cupric chloride, arsenic acid, chlorine.

6. What are the differences in composition between cast iron, wrought iron, and steel? Describe the construction of the blast furnace, and explain the principal chemical changes which occur in it.

7. What are the characteristic properties and reactions of aldehydes and ketones? Give some examples of the two classes of compounds.

## *II.—SECOND PROFESSIONAL EXAMINATION.*

### ANATOMY.

*1st October*, 1901.

1. Describe the dispositions of connective tissue in the substance of the liver, in its coverings and round its vessels. Also describe the disposition of the lymphatics of the liver.

2. Describe the retina, in so far as it can be studied with the naked eye.

3. Describe shortly the origin and distribution of the arteries and nerves of the following muscles: supra-spinatus, infra-spinatus, subscapularis, teres major, teres minor, and deltoideus.

4. State the position, size, shape, colour and consistence of the suprarenal bodies, and the disposition of their arteries, veins, and nerves.

### PHYSIOLOGY.

*1st October*, 1901.

(*Only* FOUR *questions to be attempted.*)

1. Describe the microscopical structure of the trachea and large bronchi, and explain the uses of the various structures which you describe. What are the functions of the nerves distributed to these organs?

2. Describe the more recent methods which have been employed for measuring the rate of flow of the blood in the arterial system, and explain (*a*) how the flow is maintained; and (*b*) what are the chief factors concerned in changing the rate of flow in different parts of the arterial system: for example, is the flow greatest near the heart or farther away from it, and how is a change in the rate of flow produced in the same artery? What part does the nervous system play in such changes?

3. Describe the possible chemical composition of the chyme which might result from the ingestion of a mixed meal. What changes would the pancreatic juice and the bile produce in this chyme on its reaching the small intestine?

4. What percentage of solid food does an average man require in 24 hours in proportion to his body weight? Give an example of a dietary and indicate the proportions of carbon and nitrogen which should be maintained in such a "bill of fare." Enumerate the groups under which food stuffs are classified, and indicate briefly the respective values of each in tissue metabolism.

5. How would an individual bereft of sight and hearing maintain the erect position in standing and walking? Indicate the essentials of the nervous machinery upon which he would rely to execute the necessary movements.

## MATERIA MEDICA AND THERAPEUTICS.

*30th September*, 1901.

1. Give an account of the physiological and therapeutical uses of *Sodium Iodide.* What forms of skin eruption does it sometimes cause? Mention some other remedies which, when administered internally, may produce rashes on the skin.

2. Describe the pharmacological actions of *Atropine.* To what alkaloids is it most closely allied in action, and by what substances is it antagonised? What other steps are commonly taken to arrest excessive sweating?

3. Give an account of the clinical uses of *Mercurial Ointment*, *Grey Powder*, and *Corrosive Sublimate*, stating the doses and the exact methods of use. What are the earlier symptoms of mercurial poisoning?

4. Discuss the value and use of *Tannic Acid*, *Ergot*, *Sulphuric Acid*, *Cold*, and *Morphine* in the treatment of internal and external hæmorrhage.

## *III.—THIRD PROFESSIONAL EXAMINATION.*

## PATHOLOGY.

*2nd October*, 1901.

(*Only* FOUR *questions to be answered.*)

1. Describe the morbid anatomy and course of the different forms of tuberculosis of the central nervous system. In each form state how the structure and functions of the nervous system may be affected by the conditions developed.

2. How would you isolate a pure culture (*a*) of the typhoid bacillus from the spleen of a patient dead of typhoid fever; (*b*) of the tubercle bacillus from the sputum of a phthisical patient; (*c*) of the tetanus bacillus from a suppurating wound containing it?

3. What is meant by pyrexia? Under what conditions does it arise, and what theories have been advanced to account for its occurrence?

4. Describe minutely the common chronic changes which occur in the heart wall. How do they come about and how do they affect the functions of the organ?

5. What is the composition of gall-stones? State the conditions favouring their formation, and describe the effects which may be produced by them.

## MEDICAL JURISPRUDENCE.

*2nd October*, 1901.

(FOUR *questions to be answered, of which No.* 5 *must be one.*)

1. What discolourations of the skin may be found on dead bodies? Discuss their causes, and the modes by which they may be differentiated.

2. What scheme of identification would you propose for the identification of criminals? Discuss the merits and demerits of the systems now in use.

3. Upon what evidence would you found the opinion that a girl of sixteen years had been ravished?

4. What are the points which are essential to the validity of a medical certificate of insanity?

5. Describe the symptoms and post-mortem appearances of acute and chronic poisoning by Phosphorus. How may the poison be obtained? Describe in detail the tests by which it may be found in the stomach in acute poisoning.

## PUBLIC HEALTH.

*2nd October*, 1901.

(FOUR *questions to be answered, of which No.* 5 *must be one.*)

1. Describe the essential features of any two of the existent processes for sewage-purification. What plan of disposal and purification would you suggest for an inland town of 6,000 inhabitants?

2. Classify the sources of water-supply with respect to the purity of the water generally derived from them. If a domestic supply is taken from a river liable to sewage-pollution, describe the steps which ought to be taken to ensure its purity.

3. What is meant by Ventilation? What are the principal methods of Artificial Ventilation? What system would you recommend for a large public school? and why?

4. By what means is the integrity of the sanitary arrangements of a house established? What tests may be applied? and how?

5. Smallpox has broken out in a village? What steps ought to be taken with reference (*a*) to those attacked, (*b*) to those who have been exposed to infection, (*c*) to the rest of the inhabitants? What process of disinfection ought to be employed with respect to the dwellings and bed-clothing of those attacked?

## *IV.—FINAL PROFESSIONAL EXAMINATION.*

### SURGERY.

*20th June*, 1901.

(FOUR *questions only to be answered.*)

1. Give the symptoms and appearances attendant upon enlarged prostate and detail the treatment.

2. Give the symptoms and appearances of the most common dislocation of the elbow joint.

3. Describe the anatomical relations of Inguinal Hernia, and give the symptoms and appearances of such Herniae.

4. Give the symptoms, appearances, and treatment of Conjunctivitis.

5. Give the diagnosis and treatment of aneurism of the axillary artery.

### PRACTICE OF MEDICINE.

*20th June*, 1901.

1. What special characters would lead you to infer that cerebral lesions are situated
(*a*) In the Rolandic convolutions;
(*b*) In the elbow and the whole of the hinder limb of the internal capsule;
(*c*) At the junction of the pons and medulla oblongata?

2. Give a short sketch of the symptoms, blood changes, diagnosis, and treatment of the spleno-medullary form of leukaemia.

3. Explain how dropsy may result from mitral obstruction; give an account of the other manifestations, due to the same cause, which are likely to accompany it; and what treatment would you adopt?

4. What are the characters of the urine in well-marked cases of
(*a*) Pyelitis;
(*b*) Granular (contracted kidney);
(*c*) Acute nephritis;
(*d*) Amyloid (lardaceous) disease of the kidney (early stage)?

### OBSTETRICS AND GYNAECOLOGY.

*21st June*, 1901.

(*Answer* FOUR *questions only*, *including* 4 *and* 5.)

1. Describe the mechanism of the following positions:
(*a*) 3rd cranial;
(*b*) 2nd facial;
(*c*) 1st breech.

2. Describe complete and incomplete abortion in the second month of pregnancy. Give diagnosis and treatment

3. Define the different forms of haemorrhage met with during pregnancy, and describe the methods of treatment in each case.

4. Give the etiology of carcinoma uteri, and describe the various forms of it.

5. Give the diagnosis of parametritis, and state the conditions with which it may be associated. Describe the treatment.

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# V.—FOR DEGREES IN LAW.

## I. PRELIMINARY EXAMINATION FOR B.L.

## a.—ARTS AND SCIENCE PRELIMINARY.

(See pp. 472—494.)

## b.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 494—520.)

## II. LAW EXAMINATIONS FOR LL.B. AND B.L.

### CIVIL LAW—Three Hours.

(*Candidates are requested to answer only* TEN *of the following twelve questions.*)

1. Describe the position of the *curia* in the political organisation of early Rome.

2. Give an account of the origin and nature of *plebiscita.*

3. State the purport of the following enactments: *Lex Valeria de provocatione; Lex Canuleia; Lex Hortensia; Lex Calpurnia de repetundis.*

4. "The early empire has been called a 'dyarchy' or dual government, and the term really expresses the formal nature of the constitution." Discuss this statement, and illustrate from the departments of (*a*) legislation, (*b*) provincial administration, (*c*) finance.

5. Give a brief account of the Romano-barbarian Codes.

Write a short note on the position of Roman law in the barbarian kingdoms of Western Europe after the fall of the Roman Empire of the West.

6. In what modes might a marriage *cum manu* be contracted?

What means were taken by the law to give effect to the principle—*rei publicae interest mulieres dotes salvas habere*?

7. Translate:

Igitur, quod liberi nostri quos in potestate habemus . . . mancipio accipiunt vel ex traditione nanciscuntur, sive quid stipulentur vel ex aliqualibet causa adquirunt, id nobis adquiritur; ipse enim qui in potestate nostra est nihil suum habere potest. (*Gai. Inst.* II. 87.)

Trace the decay of the rule stated in this passage.

What were (*a*) the forms and (*b*) the effects of *emancipatio*?

8. Explain the operation of *specificatio* as a mode of acquiring property.

State the scope and effect of (*a*) *usucapio* under the XII. Tables, and (*b*) *possessio longi temporis* as introduced by the peregrine praetors.

9. In what circumstances did a testament become *irritum*?

Explain the following: *beneficium abstinendi; exheredatio; delatio hereditatis.*

To whom, and in what order, did the praetors grant *bonorum possessio ab intestato* on the death of a free-born citizen?

10. Define *obligatio.*

What is meant by an 'innominate' contract?

State the rights and duties of a *creditor pigneraticius* in the Justinianian law.

11. By whom and in what circumstances could the following actions be brought: (*a*) *actio quod jussu;* (*b*) *actio de inofficioso testamento;* (*c*) *actio in factum praescriptis verbis?*

12. Translate and comment on *three* of the following passages:

Postliminium fingit eum qui captus est semper in civitate fuisse. (*Inst.* 1. 12. 5.)

Legatum est quod legis modo, id est imperative, testamento relinquitur; nam ea quae precativo modo relinquuntur fideicommissa vocantur. (*Ulp.* 24. 1.)

In omnibus enim vice heredum bonorum possessores habentur. (*D.* 37. 1. 2.)

Pupillorum pupillarumque tutores et negotia gerunt et auctoritatem interponunt; mulierum autem tutores auctoritatem dumtaxat interponunt. (*Ulp.* 11. 25.)

CANDIDATES FOR DEGREES IN LAW *are recommended to answer, in addition to the above,* TWO *of the following questions.*

1. Distinguish *emptio venditio* and *permutatio.*

Discuss the statement: Emptio ac venditio nuda consentientium voluntate contrahitur; permutatio autem ex re tradita initium obligationi praebet. (*D.* 19. 4. 1. 2.)

2. In what circumstances was the *actio quanti minoris* available?

State, with a brief description, the more important *pacta adjecta* in use in connection with a contract of sale.

3. Translate and comment on the following passage:

Si quis fundum emerit, quasi per eum fundum eundi agendi jus non esset, et interdicto de itinere actuque victus sit, ex empto habebit actionem; licet enim stipulatio de evictione non committatur, quia non est de jure servitutis in rem actione pronuntiatum, tamen dicendum est ex empto actionem competere. (*D.* 19. 1. 35.)

## LAW OF SCOTLAND—Three Hours.

(*Not more than* TWELVE *of the following questions to be attempted of which* ONE *must be in Criminal Law.*)

1. Distinguish *jus tertii* from *jus quaesitum tertio.* Illustrate your answer from the case of an antenuptial marriage contract containing provisions in favour of the children of the marriage, whom failing strangers.

2. What is a 'hire-purchase' agreement? Explain the rights of the seller in a question with (*a*) the buyer's trustee in bankruptcy, (*b*) an onerous transferee from the buyer without notice. *Quid juris* if the buyer had no option but to buy?

3. How far is any warranty of quality or fitness implied in a contract for the sale of goods? Were the provisions of the Sale of Goods Act 1893 on the subject to any extent declaratory of the then existing law? State the alteration (if any) thereby effected.

4. Is a master answerable for injuries to a servant (1) which the servant has caused by his own fault, or (2) which a fellow servant has negligently caused? Shortly explain the common law and the statutory provisions.

5. Comment on the following:

(1) "One is not to complain of a nuisance if he come to the nuisance."

(2) "A place in which already offensive works exist may be rendered still more offensive without entitling the complainers to an interdict, provided the increase be not carried so far as to render the accumulated nuisance intolerable or dangerous."

6. Discuss leases as securities for money lent.

7. Explain whether the partner of a firm can bind his co-partners by accepting a bill in name of his firm.

8. What are the *jus mariti* and right of administration? How far have they been abrogated by recent legislation?

9. In what cases may marriage be dissolved? Do they all apply both in regular and irregular marriage? Can the children maintain the defence of an action craving dissolution after the death of their parent?

10. (*a*) *A* dies in 1897 predeceased by his parents, but survived by his immediately elder brother *B*, by his immediately younger brother *C*, by two nephews, *D* and *E*, children of his eldest brother deceased, and by two nephews and a niece, *F*, *G*, and *H*, children of a deceased sister. Who succeeds to his heritable and moveable estate? Assume there is no collation. (*b*) *E* dies in 1900 predeceased by *C* and *D*, but survived by *B*, *F*, *G*, and *H*, and also by his mother, leaving only moveable estate. Who succeeds to it? Assume throughout that the parties are unmarried and intestate, unless otherwise stated, and give reasons.

11. Explain compensation as a mode of extinguishing debt. Describe the requisites for its operation.

If a firm is creditor or debtor of a third party, can a debt due to or by a partner be pleaded in compensation by the firm or against the firm?

12. Discuss the competent proof of payment of a sum of money, illustrating your answer from such instances as (*a*) loan, (*b*) ready-money sale, and (*c*) payment of a legacy.

13. Translate and illustrate:
   (1) Culpa lata dolo equiparatur.
   (2) Nemo debet locupletari jacturâ alienâ.
   (3) In turpi causa melior est conditio possidentis.

14. When does taking away the life of another involve criminality? Classify the cases where the taking away is culpable.

15. Define theft. Of what other crimes may a person charged with theft be convicted? Give an illustration, stating the facts inferring theft, and the variations which would infer the other crimes.

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## CONVEYANCING—THREE HOURS.

(*Not more than* TWELVE *questions to be attempted.*)

1. Write an historical note on the origin of the feudal system of land tenure, and indicate the leading stages in its development. Is it of universal application in Scotland?

2. Give a brief account of the Register of Sasines and indicate the part which it has played in Scottish conveyancing.

3. Distinguish carefully between a real burden and a personal obligation. State the import of the observations of Lord President Inglis, in the case of *The Magistrates of Arbroath v. Dickson*, on the case of *Coutts*.

4. What is meant by completing a title to a heritable estate? Describe the steps necessary to complete the title of a disponee holding an *a me vel de me* disposition from a person duly infeft and entered (1) in 1850, (2) in 1870.

5. How did a general disponee formerly make his right real? What provision does the Consolidation Act of 1868 make for this case? Why can a general disponee not take infeftment *de plano* on the disposition in his favour?

6. *A* dies in 1880 infeft in certain lands, and is succeeded by his heir *B* who, without making up a title, dispones the subjects to *C*. How would you complete *C*'s title? Would the disposition by *B* have conveyed any right to *C* apart from the Conveyancing Act of 1874?

7. State the effect of the insertion of the following clauses in a feu charter: (1) a clause of pre-emption, (2) a clause prohibiting subinfeudation, (3) a clause prohibiting alienation without the superior's consent.

8. State the various modes, past and present, of transmitting real rights in lands from the dead to the living (1) in the case of testacy, (2) in the case of intestacy.

9. Is writ essential to the constitution of a negative servitude? What protection does a search afford with regard to the existence of servitudes?

10. *A* in 1871 conveys certain lands, which are in non-entry at the time, to *B* by disposition containing the usual statutory clause of relief from casualties. *B* in 1890 conveys the lands to *C* by a similar disposition. The superior demands payment of a composition from *C*. *C* pays and is repaid by *B* in virtue of the clause of relief in *C*'s disposition. On *B* in turn seeking relief from *A* he is met with the answer (1) that composition was not a casualty within the meaning of the clause of relief in *B*'s disposition, and (2) that the composition paid by *C* was paid by him in respect of his own entry and was not due and payable in 1871. Discuss the relevancy of these defences.

11. A testator died in 1890 leaving a Trust Disposition and Settlement in favour of certain Trustees, directing them to convey his heritable property to his heir. The Trustees completed their title and the lands being in non-entry by the testator's death the superior demanded payment of a casualty. What was the casualty payable? Was the heir, on his receiving a conveyance of the subjects and taking infeftment, liable in any further casualty in respect of his own entry?

12. Enumerate the various forms of real diligence, stating their nature and purpose and the circumstances to which each is appropriate.

13. What are the leading clauses in a Contract of Ground Annual? Is a Ground Annual heritable or moveable *quoad* succession?

14. Frame destinations which will result in the creation of (1) a fee vested subject to defeasance, (2) a fiduciary fee, and (3) a *spes successionis*.

15. Give the rules as to the evacuation of prior destinations by subsequent deeds.

16. What is the statutory import of the clause—"I grant warrandice"? Mention the various kinds of warrandice, specifying the circumstances to which each is appropriate. When does the right of recourse emerge under a clause of warrandice?

## PUBLIC INTERNATIONAL LAW.—THREE HOURS.

(*Omit* TWO *questions under each of heads* A *and* B.)

### A

1. What is understood by Authorities in International Law? In what sense are they binding?

2. Discuss the doctrine of exterritoriality in connection with the office of consul and the right of asylum at consulates.

3. Give the principal rules for the interpretation of treaties.

4. How may British nationality be lost? Does the fact of Great Britain being at war with a foreign state bar a British subject from becoming naturalized therein?

5. Explain shortly any *two* of the terms: British Ship; Protectorate; Sphere of Influence; Spy; Privateer; Piracy.

6. Give a brief account of any *two* of the following cases: De Haber *v.* the Queen of Portugal; The Trent; La Santissima Trinidad; Count Gyllenborg; Lord Sackville.

B

7. Discuss the doctrine that war is an affair solely between the organized forces of one state and the organized forces of another state. Is it theoretically correct? Does it correspond, completely or approximately, with the particular usages of war?

8. How far are any of the following liable to capture: Hostile goods in neutral ships; horses in transit to a belligerent state; the innocent cargo of a vessel returning from landing munitions of war at a belligerent port?

9. What is Pacific Blockade? How far has it achieved the purposes aimed at, and what difficulties does it present in practice?

10. How does a person become an enemy?

11. State the main principles of the law of visit and search.

12. What is the effect of military occupation on the law of the occupied country?

C

*Write brief essays on any* TWO *of the following topics*:

13. City States and Nation States.

14. The Laws of War in relation to savages.

15. The Armed Neutrality.

16. Continuous voyages.

17. Japan and the family of Nations.

18. International Morals and Animosity.

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## INTERNATIONAL PRIVATE LAW—Three Hours.

1. Two *questions are to be omitted under each of heads* A *and* B.
2. *In all answers a reference to the authorities relied on is expected.*

A.

1. *P* was born China, his father being a Scotsman trading there. *P*, having never been in Scotland, marries an English lady in China. *P* is now resident in Scotland, and his wife being in London refuses to live with him. Can *P* obtain a divorce?

2. If a domiciled Australian, having married his deceased wife's sister in Sydney, comes to Scotland, what is the status of (1) his wife, and (2) of the children born in Australia and in Scotland respectively?

3. What law determines the court which ought to appoint a guardian to a minor? Are there any circumstances in which two courts might appoint guardians?

4. What law determines the capacity of a Corporation?

5. *H*, domiciled in England, marries *W*, a woman domiciled in France. It is the intention of both parties to go immediately after the marriage

and settle in Scotland. In the event of the dissolution of the marriage, what law regulates *W*'s rights ?

6. Give a brief report of any two of the following cases : P. and O. Co. *v.* Shand ; *in re* Bethell ; Orr Ewing *v.* Orr Ewing ; Le Mesurier *v.* Le Mesurier ; Don *v.* Lippmann ; Hamlyn *v.* Talisker Distillery Co.

B.

7. A bill for 1000 pesetas, payable three months after date, is drawn in Madrid on Glasgow. The bill is worth £240 in Glasgow on the day it is drawn, £245 at the end of three months, and £250 on the third day of grace. How much can the holder demand ?

8. A bill for £100 is drawn and issued in Demerara, accepted and payable in Glasgow. At the time when the bill matures, the holder owes the acceptor £100. According to the law of Demerara, this operates as a discharge of the bill (by *compensatio*). Is the drawer liable in Scotland ?

9. The English Divorce Court divorces *H* from his wife *W*. *H*, during the lifetime of *W*, marries *X* in Glasgow. *H* is prosecuted for bigamy, it being averred that the English court had no jurisdiction. *Quid juris* ?

10. How is foreign law proved ? What exception has been recognised to the rule that foreign law must be proved ?

11. An offer is posted in London to sell a picture in an artist's studio in Brussels. The acceptance is posted in Glasgow. What law regulates the contract ?

12. A Scottish Company, Ltd., own a ship registered in Rotterdam, and trading between Leith and that port. What law regulates the rights of parties under a Bill of Lading, in the Dutch language, signed by the agent of the company at Rotterdam ?

C.

*Write short essays on any* TWO *of the following topics :*

13. Equity and Private International Law.

14. The Theory of Statutes.

15. The Assimilation of Laws and the effect on their conflicts.

16. British legislation on Private International Law.

17. Foreigners and the Income Tax.

18. Definitions of Domicil.

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## JURISPRUDENCE—THREE HOURS.

### PHILOSOPHY OF LAW.

*Note—Omit* TWO *questions under each of heads* A *and* B.

A.

1. What does Maine consider the three agencies of legal reform ? Describe shortly the nature of each and the order in which they appear.

2. What fiction does Maine consider to be involved in the conception of case-law? State any criticism that occurs to you.

3. In what circumstances did international law take its rise, and where did it go for its principles?

4. How far do you consider Austin's conception of law as a command enforced by authority applicable to ancient customary law, international law, the Act of Union between England and Scotland, judge-made law?

5. Discuss the view that the ascertainment of law from decided cases is a purely inductive process, the facts of the case being the antecedents, the legal result the consequent.

6. Is it possible to trace a connection between the development of criminal law and the development of the idea of the state?

### B.

7. Explain and illustrate the notion of sovereignty.

8. Give the principal classifications of rights, and explain the purpose of such classifications.

9. Explain the phrases: Remedial rights; abnormal rights; adjective law.

10. Distinguish Public and Private Law.

11. Discuss Holland's theory as to "The Application of Law"

12. What is the position of Private International Law in a legal system?

### C.

*Write short essays on any* TWO *of the following topics*:

13. The State and Corporations.

14. The Right of Rebellion.

15. The Rights of Woman.

16. Crime and Punishment.

17. *Ubi societas ibi jus.*

18. The Function of Legislation.

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## CONSTITUTIONAL LAW AND HISTORY.

THREE HOURS.

(*Omit* TWO *questions in each part.*)

### PART I.

1. To what extent may the *Curia Regis* of the Norman kings be regarded as a continuation of the Anglo-Saxon Witenagemot?

2. Discuss the main points at issue between *either* (*a*) Henry I. and Archbishop Anselm, *or* (*b*) Henry II. and Archbishop Thomas à Becket.

3. Give in substance the clauses of Magna Carta (*a*) in favour of personal liberty, (*b*) forbidding arbitrary taxation, (*c*) providing machinery for the enforcement of its provisions.

4. "The prerogative could not soar to the heights it aimed at, till thus impelled by the perfidious hand of Parliament" (*Hallam*). Illustrate this quotation by an account of some of the powers conferred by Parliament on Henry VIII.

5. Explain some of the broader constitutional questions indirectly affected by the decision in the Ship Money case.

6. Explain and illustrate the attitude of James II. towards "liberty of conscience."

7. Sketch concisely the development of the cabinet system. Explain more fully *either* (*a*) Sir W. Temple's scheme, *or* (*b*) the difference between William III.'s earlier and later ministries.

### PART II.

8. What are the positive and negative aspects of the imperial supremacy of Parliament? How is it enforced in practice? To what conditions must a colonial statute conform?

9. What is meant by martial law as applied to (*a*) military persons, (*b*) civilians? What general principle of law underlies the recent judgment in *Marais'* case?

10. Will a court of law admit an order of the House of Commons as an answer to a claim of damages? Illustrate from the cases of *Burdett v. Abbott* and *Stockdale v. Hansard*. Is there any difficulty in reconciling these cases?

11. When has the prerogative of overcoming the opposition of the lords by the creation of peers been (*a*) exercised, (*b*) threatened, and what legislative attempt was made in the eighteenth century to restrict this prerogative?

12. What is the limitation of the right of the Crown (*a*) to dismiss a ministry, (*b*) to select a prime minister? Illustrate your answer.

13. Who have been and now are the judges of a person's right (*a*) to vote for a member of parliament, (*b*) to sit in the House of Commons? Refer to the cases of *Goodwin and Fortescue* and *Ashby v. White*.

14. What statutes have forbidden the undue (*a*) intermission, (*b*) prolongation, of parliaments? Are such safeguards necessary at the present day?

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## FORENSIC MEDICINE—TWO HOURS.

(FOUR *questions only to be answered, of which No.* 6 *must be one.*)

1. Name and describe the kinds of wounds which may be found on a body as the result of Violence. From the characters of a wound, how may the class of offending weapon be inferred?

2. Define a Burn. How may Burns be produced? Describe generally the appearance resulting from different causes of Burning.

3. Describe shortly any three of the following: Cadaveric Rigidity; Post-Mortem Lividity; Adipocere; Mal-praxis; Ecchymosis; Cadaveric Spasm; Live-birth; Impotence in the Female with relation to Nullity of Marriage.

4. Indicate the evidence necessary to prove that a coloured stain on a garment was due to mammalian blood.

5. State generally the law as to the relation of Inebriety to Criminal Responsibility.

6. Describe the symptoms of acute poisoning by Antimony administered as Tartar Emetic. Contrast them with those after administration of strong Sulphuric Acid. Give *one* chemical test for the detection of Antimony.

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## VI.—DEGREE OF B.D.

### I.—FIRST DEPARTMENT.

## HEBREW.

### FIRST PAPER—Three Hours.

I. Point and translate the following:

והיה אם שמוע תשמע בקול יהוה אלהיך לשמר לעשות את־כל־מצותיו אשר אנכי מצוך היום ונתנך יהוה אלהיך עליון על כל־גויי הארץ: ובאו עליך כל־הברכות האלה והשיגך כי תשמע בקול יהוה אלהיך: ברוך אתה בעיר וברוך אתה בשדה: ברוך אתה בבאך וברוך אתה בצאתך: יתן יהוה את איביך הקמים עליך נגפים לפניך בדרך אחד יצאו אליך ובשבעה דרכים ינוסו לפניך: יקימך יהוה לו לעם קדוש כאשר נשבע לך כי תשמר את מצות יהוה אלהיך והלכת בדרכיו: וראו כל עמי הארץ כי שם יהוה נקרא עליך ויראו ממך: יפתח יהוה לך את אוצרו הטוב את השמים לתת מטר ארצך בעתו ולברך את כל מעשה ידך והלוית גוים רבים ואתה לא תלוה: ונתנך יהוה לראש ולא לזנב והיית רק למעלה ולא תהיה למטה כי תשמע אל מצות יהוה אלהיך אשר אנכי מצוך היום לשמר ולעשות: ולא תסור מכל הדברים אשר אנכי מצוה אתכם היום ימין ושמאול ללכת אחרי אלהים אחרים לעבדם:

II. Give the following in punctuated Hebrew:

And Judith went out, she, and her handmaid with her; and the men of the city looked after her, until she was gone down the mountain, until she had passed the valley, and they could see her no more. And they went straight onward in the valley: and the watch of the Assyrians met her; and they took her, and asked her, Of what people art thou? And whence comest thou? And whither goest thou? And she said, I am a daughter of the Hebrews, and I flee away from their presence; because they are about to be given you to be consumed: and I am coming into the presence of the chief captain of your host, to declare words of truth; and I will show before him a way, whereby he shall go, and win all the hill-country, and there shall not be lacking of his men one person, nor one life. Now, when the men heard her words, and considered her countenance, the beauty thereof was exceeding marvellous in their eyes, and they said unto her, Thou hast saved thy life, in that thou hast hasted to come down to the presence of our lord: and now come to his tent, and some of us shall conduct thee, until they shall deliver thee into his hands. But when thou standest before him, be not afraid in thine heart, but declare unto him according to thy words; and he shall entreat thee well.

## SECOND PAPER—Three Hours.

I. 1. Translate Jeremiah viii. 13-23.

2. Parse האספו and ונדמה in v. 14; קוה in v. 15; ונשכו in v. 17; and נושענו in v. 20.

3. Give a grammatical and syntactical note on אסף אסיפם in v. 13. Account for the LXX rendering *συνάξουσιν τὰ γενήματα αὐτῶν*, and explain its drift.

4. The words ואתן להם יעברום in v. 13 have been variously rendered. Examine them, and defend your own rendering.

5. Give brief syntactical notes on (*a*) קוה in v. 15; (*b*) ויבואו in v. 16; (*c*) וישבי בה in v. 16; (*d*) ואבכה in v. 23.

9. Remark on מבליגיתי in v. 18, and explain the clause in which it stands.

II. 1. Translate Psalm xlv.

2. Parse הוצק in v. 3; ותורך in v. 5; נצבה in v. 10; והטי in v. 11; והשתחוו in v. 12; יחלו in. v. 13; תובל in v. 15; תשיתמו in v. 17; and יהודוך in v. 18.

3. What is the syntax of: (*a*) הודך והדרך in v. 4; (*b*) והדרך and ענוה־צדק in v. 5; (*c*) שמן in v. 8; (*d*) ויתאו in v. 12; (*e*) ובת צר and עשירי עם in v. 13?

4. Give a discussion of כסאך אלהים עולם ועד in v. 7, and defend the rendering which you adopt.

5. Remark on יפיפית in v. 3; מני in v. 9; and ביקרותיך in v. 10.

6. Who is the king referred to? Support your opinion by proofs from the Psalm.

III. 1. Give a succinct and connected account of the national history during which Jeremiah exercised his ministry as a prophet. What references have you found in his book to the circumstances connected with the reformation in Josiah's reign?

2. What indications does the Book of Psalms furnish of its gradual formation? State what you consider to have been the various steps in bringing it into its present form.

## NEW TESTAMENT EXEGESIS—THREE HOURS.

1. For what readers and with what object was the Gospel according to Matthew written? Answer this question from internal evidence.

2. Give the leading divisions and subdivisions of the book as indicated by the Evangelist himself. Point out the relations in which the several parts stand to one another.

3. Translate, with exegetical notes, Matt. xvii. 24—27, and Matt. xxi. 33—44. From a doctrinal point of view what is the subject or drift of each passage? Account for the variation of the figure in the second part of the latter passage.

4. Compare the passage Matt. xix. 3—9 with the corresponding passage in Mark, point out the differences, and account for these differences if you can.

5. Translate, with exegetical notes, Ephes. i. 15—23. Comment specially on the peculiarities of the following expressions—v. 15, *τὴν καθ' ὑμᾶς πίστιν* ...; v. 17, *ἵνα ὁ Θεὸς τοῦ Κυρίου ἡμῶν Ἰησοῦ Χριστοῦ, ὁ πατὴρ τῆς δόξης, δῴη ὑμῖν* ...; v. 18, *πεφωτισμένους* ...; v. 20, *ἐγείρας*; v. 22; *καὶ αὐτὸν ἔδωκεν κεφαλήν* ...; v. 23, *τὸ πλήρωμα.*

6. Translate Col. i. 15—20. Expound the Christology of the Apostle, as here enunciated.

## APOLOGETICS—THREE HOURS.

(TEN *questions only to be answered.*)

1. Sketch the history of English Deism, mentioning its leading representatives and their most important works. Point out the cardinal questions at issue in the Deistical Controversy, and discuss its general standpoint and theological significance.

2. Give an account of (1) Butler's "Analogy," (2) Hume's "Natural History of Religion," (3) Lessing's "Education of the Human Race"; and estimate their value as contributions to the Philosophy of Religion.

3. Summarise and criticise Jacobi's Philosophy of Religion.

4. Give an account of the Philosophy of Religion in France during the eighteenth century.

5. Distinguish the forms of Pantheism presented in (1) Greek Philosophy, (2) Spinoza, (3) German speculation. Show how they have influenced Christian Theology, and give a reasoned estimate of their present theological value.

6. Give an account of Holyoake's Secularism, and of Bradlaugh's position; and indicate how you would deal with an earnest Secularist who could competently argue their principles. How is Secularism related to Deism, Positivism, and Agnosticism?

7. What is Agnosticism, and how is its recent spread to be accounted for? Review the Agnostic principles of Hume *or* Herbert Spencer. Discuss the various attitudes of Agnosticism to Christianity, and add a note on "Agnostic Religions."

8. Show how the Necessity, Possibility, and Reality of Revelation were maintained and argued (1) by the Ancient Apologists, and (2) by the Apologists of the eighteenth century.

9. Discuss the Biblical idea of Revelation, and show how recent Biblical Theology has elucidated the nature, method, limits, and end of Revelation.

10. How is Revelation related to Naturalism, Agnosticism, Pantheism, Rationalism, and Supernaturalism? Discuss historically, with criticism.

11. Review various Definitions of a Miracle; consider the evidential value of Miracles; and criticise Hume's Argument in his Essay on Miracles.

12. How does the method of a Christo-centric Theology affect Apologetics? How may the unique character and value of Christ's Person be best and most fully established in the light of contemporary Theology? Refer to Schleiermacher, Ritschl, and English Theologians.

13. Write a short Essay on the Relation of the Person of Christ to the historical Jesus of Modern Criticism, to the Revelation and Miracles of Scripture generally, and to the Ideal of Humanity.

## II. SECOND DEPARTMENT.

## DIVINITY—Three Hours.

### I. THE DOCTRINE OF SIN.

(Four *questions only required.*)

1. Mention the leading theories concerning the Nature and Origin of Sin, and discuss fully any one of them.

2. Define the theological terms: (1) Guilt, (2) Imputation, (3) Original Sin. Give a critical account of the main views that have been held regarding the Imputation of Adam's Sin.

3. Summarise Paul's teaching on the subject of Sin as exhibited in the Epistle to the Romans.

4. Contrast Augustinianism and Pelagianism, and trace the later modifications of each of these systems.

5. State and discuss Ritschl's views as to (1) the relation of Sin to the Wrath of God, (2) the idea of a Kingdom of Sin, (3) Unpardonable Sin.

## II. THE ATONEMENT.

(THREE *questions only required.*)

1. Summarise our Lord's teaching regarding His death, *or* summarise the representation of Christ's death given in the Epistle to the Hebrews.

2. Discuss the *munus triplex* as bearing on the Atonement in the light of Ritschl's criticism.

3. What is meant by Forgiveness of Sins? Elucidate the connexion between Forgiveness and the Death of Christ, and indicate wherein the propitiatory value of that Death consisted.

4. Examine briefly any *two* of the theories of Atonement associated with the following names: Anselm, Socinus, Grotius, Schleiermacher, M'Leod Campbell, Ritschl.

5. Discuss the relation of the Atonement to (1) the Person of Christ, (2) the Decree of Election, (3) Justification and the Kingdom of God.

## III. THE CHURCH AND THE SACRAMENTS.

(THREE *questions only required. Alternative with IV.*)

1. Summarise the teaching of the New Testament concerning the Nature, Authority, and Offices of the Church, in the light of contemporary Biblical Criticism and Theology.

2. State and examine any recent theories as to the origin and validity of the Episcopate founded upon new historical examination of the Post-Apostolic Age. Add a note on Cyprian's "De Unitate Ecclesiae."

3. Contrast the Roman Catholic and Protestant views of the Nature, Marks, and Authority of the Church; and discuss in connexion the distinction between the Visible and the Invisible Church.

4. Sketch the history of the dogma of Transubstantiation, and criticise it from the Biblical and Protestant standpoint.

5. Give a brief account of the Colloquy of Marburg and the distinctive positions concerning the Lord's Supper maintained by Luther and Zwingli. Formulate the consensus as to these positions of the Reformed Confessions.

6. Discuss (1) Infant Baptism, (2) Baptismal Regeneration, (3) Extreme Unction.

## IV. CHRISTIAN ETHICS.

(*Alternative with III.* THREE *questions only.*)

1. Define Christian Ethics, and give a division or synopsis of the subjects it embraces. Discuss its relations to Dogmatics and to Practical Theology, and account for the special interest and character of Christian Ethics in the Nineteenth Century.

2. Show how the subject of Christian Ethics has been dealt with in the Theology of the Reformed Church. Compare its method and character with those of the Lutheran Theology, and discuss the relation of Christ's Ethical Teaching to the Law.

3. State and discuss the view of the Highest Good given by Schleiermacher *or* Rothe *or* Martensen and Ritschl.

4. Summarise Newman Smyth's account of the Social Problem and Christian Duties, *or* discuss the subject in your own way.

5. Give an account of the development of Christian Ethics in the Post-Apostolic Age. Compare it with the Ethical Teaching of Jesus and Paul.

6. Summarise the Ethics of (1) Clement of Alexandria, (2) Jerome, (3) Thomas Aquinas.

## CHURCH HISTORY—THREE HOURS.

### "THE AGE OF HILDEBRAND."

1. Give an account of Berengarius, his opinions and his treatment.

2. When, with what convictions, with what objects, by what means, and under what difficulties, was clerical celibacy enforced on the Western Church?

3. What do you know of Michael Caerularius, Hadrian IV., Arnold of Brescia, Norbert of Xanthen, Peter Damiani, and Rudolf of Swabia?

4. Who were the Albigenses, the Flagellants, and the Third Order of S. Francis?

5. Criticise the following passage: "The condition of the world at the accession of Innocent III. afforded ample opportunity for the display of apostolic zeal. . . . The restoration of justice, of order, of unity from this confusion was the herculean task which the new Pope set himself to accomplish, by the exercise of that authority which the public law of the Middle Ages offered to the Popes; and the personal life and public action of this Pontiff afford undeniable evidence that the supremacy of Papal authority in such hands is the truest assurance of the world's progress, and but one of many instances that could be adduced to prove that the history of the Church is the history of civilisation."

6. Write a short essay sketching the history and estimating the character and policy of Gregory VII.

7. Mention the main causes that led to the Crusades, and estimate their influence on the Church and on civilisation.

8. Account for the impulse given to Monasticism during this period, and describe briefly the following orders: Franciscans, Dominicans, Carmelites.

9. Compare the theological tendencies exemplified in the system of Anselm and in that of Abelard, especially with regard to (*a*) faith and reason, (*b*) the Atonement.

10. Trace briefly the course of the controversy between the Greek and the Latin Churches during this period.

## BIBLICAL CRITICISM.

### *a*. TEXTUAL CRITICISM—Three Hours.

1. Compare Greek Manuscripts, Versions, and Patristic Citations as sources of evidence for the text of the New Testament, and state the advantages and drawbacks attaching to each of the three.

2. Describe the extra-textual marks of various kinds which have been placed upon Manuscripts, indicate the purposes they were intended to serve, and show what testimony they may give in disputed readings.

3. Mention the outstanding peculiarities of the Greek text of the Codex Bezae, and state the views of J. R. Harris and Fr. Blass respectively by which they attempt to account for these peculiarities.

4. In Comparative Criticism, what use has been made of the fact that Origen in a number of cases has expressly noticed varieties of reading in the Gospels?

5. "The agreement of ancient Manuscripts, or of Manuscripts containing an ancient text, with all the earliest versions and citations, marks a certain reading." Explain the several parts of this statement.

6. What attitude towards the Textus Receptus was taken up by Griesbach and Lachmann respectively in their editions of the New Testament?

7. Explain in detail the following canons laid down by Tischendorf:

(*a*) *Arcenda sunt quae quamvis pluribus probata testibus ex errore librariorum orta esse manifestum vel maxime probabile est.*

(*b*) *Studiose tenenda sunt quae a ratione sermonis Graeci auctoribus Novi Testamenti proprii neque minus a consuetudine uniuscujusque horum scriptorum commendantur.*

8. How many types of text are recognised by Westcott and Hort? Criticise the nomenclature which they use. How have they dealt with these types of text in constructing their edition of the New Testament?

### *b*. HERMENEUTICS—Three Hours.

1. Classify the causes which may render the meaning of an ancient writing obscure to an uninitiated modern reader, and enumerate the resources at our command for elucidating it. Hence deduce the relation in which Textual Criticism and Hermeneutics stand to one another.

2. State and criticise the distinction commonly drawn between Hermeneutics and Exegesis.

3. Explain *διάλεκτος κοίνη*, *ἄπαξ λεγόμενα*, *Usus Loquendi*, Text, Context, Parallels, Allegory, Parable.

4. State the chief points of distinction between Classic Greek and the Greek of the New Testament.

5. What is meant by the Hebrew element and the Christian element in New Testament Greek?

6. Briefly state the characteristics of Paul's style and of John's.

7. What are the cautions to be observed in the use of parallel passages?

8. Give the rules for the interpretation of a Parable.

9. What causes led to the prevalence of the Allegorical Method of Interpretation in the early ages of the Church?

10. Compare the School of Alexandria with the School of Antioch as to their methods of interpretation, and give some account of the leading representatives of the two schools.

## VII.—FOR PRIZES.

### I. LUKE.

1. Account for the importance of agrarian subjects at Rome. Give an account of the principal agrarian laws passed, with dates.

2. Show to what extent the physical configuration of Italy determined the line of Roman conquest within the peninsula.

3. Compare the Roman Comitia with the Athenian Ecclesia as instruments of popular government.

4. How far has the traditional history of early Rome been affected by the results of modern archaeological research?

5. Enumerate the principal elements which contributed to the breakdown of the old Republican system in Rome, and which rendered some form of monarchy inevitable.

6. Discuss the gain or loss resulting to Rome, to Italy, and the Empire as a whole, from the supersession of the Republic by the Empire.

7. State the exact dates, circumstances, and results of the following battles:—Mylae, Heraclea, Lake Regillus, Mount Vesuvius, the Aegatian isles, Trebia, Mount Gaurus, Magnesia, Pydna, Zama.

8. What were the privileges and duties of the Equestrian Order at Rome at different times? What changes did that body undergo at different times, and with what political results?

9. Draw a map of Rome showing the position of (*a*) the Servian Wall, and (*b*) the walls of Aurelian.

10. Describe shortly the frontier of the Roman Empire at the time of the death of Augustus, and give the names of the various frontier provinces in order; indicating roughly the modern countries to which they respectively correspond.

11. Describe the usual methods adopted by Rome in the treatment of conquered countries.

### II. GLADSTONE.

### FIRST PAPER.

1. "The Roman occupation of Britain had no influence on the subsequent history of the island." Criticise this statement.

2. Follow carefully the progress of Celtic Christianity in England down to the Synod of Whitby, and point out the main reasons of its failure.

3. Indicate, by a sketch-map or otherwise, the distribution of races in Great Britain about 1000 A.D., and also the political divisions then subsisting.

4. "The more the power of the Anglo-Saxon King was circumscribed the greater became his theoretical claims." Illustrate and account for this.

5. Give an account of the form in which the Domesday survey exists, and show how it illustrates William's conception of the nature and rights of his kingship.

6. "Consolidation, not revolution, is the characteristic of the reign of Henry II." Discuss this statement.

7. How far did Simon de Montfort fairly represent English aspirations?

8. Can you justify Edward I.'s invasion of Scotland?

9. To what extent can the continuous existence of two political parties be traced during the reigns of Edward III. or Richard II.?

10. Can Wycliff's social teaching be held responsible for the political movements of the first half of the fifteenth century?

11. Illustrate and account for the development of the powers of the House of Commons under the Lancastrians.

12. Examine the character of Edward IV. as a representative of the political ideas of his time.

## SECOND PAPER.

1. In what respects did the foreign policy of Henry VII. anticipate the leading features of that pursued by Wolsey and Elizabeth?

2. To what extent was the English Reformation under Henry VIII. promoted by the revival of letters?

3. Estimate the danger to Elizabeth's government from the attitude of Mary Queen of Scots.

4. Compare the position of a Catholic recusant under Elizabeth with that of a Protestant Nonconformist in the days of Charles II.

5. What change has taken place in English Puritanism between the years 1604-1640?

6. Was the government of James I. and Charles I. more arbitrary than that of the Tudors?

7. The Revolution of 1689 "was rendered possible, or at least bloodless, by an amount of aggravated treachery, duplicity, and ingratitude seldom surpassed in history." Discuss this statement.

8. "At the beginning of the eighteenth century an extension of the franchise would have been premature, at the end of the century it was absolutely necessary." Comment on this saying.

9. Illustrate and account for the low state of political morality during the larger part of the eighteenth century.

10. Account for the failure of parliamentary independence (1782-1800) in Ireland.

11. What was the influence of the writings of Adam Smith upon practical politics in the eighteenth century?

12. Estimate the extent and examine the cause of the discontent of the working classes at the beginning of the nineteenth century.

## III. SANDFORD SCHOLARSHIP.

### A. PRESCRIBED BOOKS—THREE HOURS.

Translate:

1. HOM. *Od.* XVIII. 281—301.
2. HOM. *Od.* XXII. 465—473.
3. ARISTOPH. *Vesp.* 379—392.
Describe the scene.
4. ARISTOPH. *Nub.* 963—972.
5. DEMOSTH. *Olynth.* II. 13—15.
6. HEROD. VIII. 71.
7. HEROD. IX. 78.
Who is the speaker?

### B. UNSEEN TRANSLATION—TWO HOURS.

Translate:

1. *Αὐτὰρ ἐγώ — μέτρον γὰρ ἔχω μελιηδέος οἴνου —*
*ὕπνου λυσικάκου μνήσομαι οἴκαδ' ἰών,*
*ἔξω δ' ὡς οἶνος χαριέστατος ἀνδρὶ πεπόσθαι*
*οὔτε λίην νήφων οὔτε λίην μεθύων.*
*ὃς δ' ἂν ὑπερβάλλῃ πόσιος μέτρον, οὐκέτι κεῖνος*
*τῆς αὐτοῦ γλώσσης καρτερὸς οὐδὲ νόου,*
*μυθεῖται δ' ἀπάλαμνα, τὰ νήφοσιν εἴδεται αἰσχρά·*
*αἰδεῖται δ' ἔρδων οὐδέν, ὅταν μεθύῃ,*
*τὸ πρὶν ἐὼν σώφρων, τότε νήπιος. ἀλλὰ σὺ ταῦτα*
*γινώσκων μὴ πῖν' οἶνον ὑπερβολάδην,*
*ἀλλ' ἢ πρὶν μεθύειν ὑπανίστασο — μή σε βιάσθω*
*γαστὴρ ὥστε κακὸν λάτριν ἐφημέριον—,*
*ἢ παρεὼν μὴ πῖνε. σὺ δ' Ἔγχεε τοῦτο μάταιον*
*κωτίλλεις αἰεί· τοὔνεκά τοι μεθύεις.*
*ἡ μὲν γὰρ φέρεται φιλοτήσιος, ἡ δὲ πρόκειται,*
*τὴν δὲ θεοῖς σπένδεις, τὴν δ' ἐπὶ χείλεσ' ἔχεις.*
*ἀρνεῖσθαι δ' οὐκ οἶδας, ἀνίκητος δέ τοι οὗτος,*
*ὃς πολλὰς πίνων μή τι μάταιον ἐρεῖ.* *Theognis.*

2. *διὸ πένης μὲν οὐκ ἂν εἴη μεγαλοπρεπής· οὐ γὰρ ἔστιν ἀφ' ὧν πολλὰ δαπανήσει πρεπόντως· ὁ δ' ἐπιχειρῶν ἠλίθιος· παρὰ τὴν ἀξίαν γὰρ καὶ τὸ δέον, κατ' ἀρετὴν δὲ τὸ ὀρθῶς. πρέπει δὲ καὶ οἷς τὰ τοιαῦτα προϋπάρχει δι' αὐτῶν ἢ διὰ τῶν προγόνων ἢ ὧν αὐτοῖς μέτεστιν, καὶ τοῖς εὐγενέσι καὶ τοῖς ἐνδόξοις καὶ ὅσα τοιαῦτα· πάντα γὰρ ταῦτα μέγεθος ἔχει καὶ ἀξίωμα. μάλιστα μὲν οὖν τοιοῦτος ὁ μεγαλοπρεπής, καὶ ἐν τοῖς τοιούτοις δαπανήμασιν ἡ μεγαλοπρέπεια, ὥσπερ εἴρηται· μέγιστα γὰρ καὶ ἐντιμότατα· τῶν δὲ ἰδίων ὅσα*

*εἰσαπαξ γίνεται, οἷον γάμος καὶ εἴ τι τοιοῦτον, καὶ εἰ περί τι πᾶσα ἡ πόλις σπουδάζει ἢ οἱ ἐν ἀξιώματι, καὶ περὶ ξένων δὲ ὑποδοχὰς καὶ ἀποστολάς, καὶ δωρεὰς καὶ ἀντιδωρεάς· οὐ γὰρ εἰς ἑαυτὸν δαπανηρὸς ὁ μεγαλοπρεπὴς ἀλλ' εἰς τὰ κοινά, τὰ δὲ δῶρα τοῖς ἀναθήμασιν ἔχει τι ὅμοιον. μεγαλοπρεποῦς δὲ καὶ οἶκον κατασκευάσασθαι πρεπόντως τῷ πλούτῳ· κόσμος γάρ τις καὶ οὗτος. καὶ περὶ ταῦτα μᾶλλον δαπανᾶν ὅσα πολυχρόνια τῶν ἔργων· κάλλιστα γὰρ ταῦτα. καὶ ἐν ἑκάστοις τὸ πρέπον· οὐ γὰρ ταὐτὰ ἁρμόζει θεοῖς καὶ ἀνθρώποις, οὐδ' ἐν ἱερῷ καὶ τάφῳ.*

ARISTOTLE, *Ethics* 1122, *b.* 26 (§ 13).

## C. COMPOSITION—THREE HOURS.

For Greek Prose:

These dim eyes have in vain explored for some months past a well-known figure, or part of the figure, of a man, who used to glide his comely upper half over the pavements of London, wheeling along with most ingenious celerity upon a machine of wood; a spectacle to natives, to foreigners, and to children. He was of a robust make, with a florid sailor-like complexion, and his head was bare to the storm and sunshine. He was a natural curiosity, a speculation to the scientific, a prodigy to the simple. The infant would stare at the mighty man brought down to his own level. The common cripple would despise his own pusillanimity, viewing the hale stoutness, and hearty heart, of this half-limbed giant. Few but must have noticed him; for the accident which brought him low took place during the riots of 1780, and he has been a groundling so long. He seemed earth-born, an Antæus, and to suck in fresh vigour from the soil which he neighboured. He was a grand fragment; as good as an Elgin marble. The nature, which should have recruited his reft legs and thighs, was not lost, but only retired into his upper parts, and he was half a Hercules.

CHARLES LAMB, *Essays of Elia.*

For Greek Verse: *Optional.*

Farewell, my tender brother. Think
Of our sad fate with gentleness, as now:
And let mild, pitying thoughts lighten for thee
Thy sorrow's load. Err not in harsh despair,
But tears and patience. One thing more, my child,
For thine own sake be constant to the love
Thou bearest us; and to the faith that I,
Tho' wrapt in a strange cloud of crime and shame,
Lived ever holy and unstained. And tho'
Ill tongues shall wound me, and our common name
Be as a mark stamped on thine innocent brow
For men to point at as they pass, do thou
Forbear, and never think a thought unkind
Of those, who perhaps love thee in their graves.
So mayest thou die as I do; fear and pain
Being subdued. Farewell! Farewell! Farewell!

SHELLEY, *The Cenci.*

## *XIII.—VACATION EXERCISES, Etc.*

### FOR 1902-3.

## HEBREW AND SEMITIC LANGUAGES.

Prizes are offered :

1. For an original composition in Hebrew.
2. For readings in the Old Testament Scriptures.
3. For *viva voce* repetition of selected passages.

Professions to be given in, in writing, not later than 8th Nov., 1902.

## GREEK CLASSES

Open to any Member of the Greek Class, Sessions 1901-2 and 1902-3.

1. For Attic Prose—Burke, Preface to *A Vindication of Natural Society.*
2. To learn by heart Plato, *Apology*, 38 C to the end.
3. To learn in the same way *Iliad* XVI.
4. A written examination in Euripides, *Medea*, to be held in October, 1902.
5. A written examination in Holm's *History of Greece*, vols. II. and III.

The same student may enter for all the above competitions. Several prizes may be given for each competition. Junior students will be judged on a more lenient standard.

The prose to be sent in by 24th October, 1902.

## HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :

I. Open to all members of the Middle or Senior Classes of 1901-1902 :—
 To learn by heart Horace, *Odes*, Book II.

II. Open to all members of the Senior or Honours Class of 1901-1902 :—
 For Latin Prose—A Short Latin Essay on the following subject : "Imperialism."

The examinations in the repetition will be held early in November, 1902. The essays must be sent in to the Professor on or before 1st November. Each exercise must bear a motto, and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

## CLASS OF BOTANY.

A prize is offered to matriculated students who have passed through the Class of Botany in the University or Queen Margaret College, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous Plants, to be named after Hooker's *Students' Flora of the British Islands.* The specimens must have been collected upon the mainland of Scotland, or upon the Scottish Islands, between 20th April, 1901, and 15th October, 1902, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 15th October, 1902, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance, save that derived from books on Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

Students of the first year in Botany are informed that a similar prize will be offered in October, 1903, and are advised to begin collecting for that competition in April, 1902.

# *XIV.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR* 1900-1901.

## INCOME.

| | | |
|---|---|---|
| I. Teinds, Feu-duties, Ground Annuals, Dividends, and Interest (including Queen Margaret College, £860 6s. 0d.), - | | £12,144 8 4¼ |
| II. Parliamentary Grant— | | |
| (*a*) Under Universities Act, . . . . | £12,180 0 0 | |
| (*b*) Under Education and Local Taxation Act, . . . . . . . . | 8,700 0 0 | |
| | | 20,880 0 0 |
| III. Special Endowments— | | |
| (*a*) Chairs, . . . . . . . . | £1,929 8 10 | |
| (*b*) Lectureships, . . . . . . | 806 7 6 | |
| (*c*) Demonstratorships, etc., . . . | 366 7 8 | |
| | | 3,102 4 0 |
| IV. Class Fees— | | |
| (*a*) Constituting the Fee Fund (including Queen Margaret College, £2,250 3s.), . . . . . . | £17,083 17 6 | |
| (*b*) Other Classes, . . . . . . | 1,011 16 10 | |
| | | 18,095 14 4 |
| V. Other Fees— | | |
| (*a*) Matriculation (including Queen Margaret College, £357), . . . . | £2,080 9 6 | |
| (*b*) Examination and Graduation (including Queen Margaret College, £600 12s.), . . . . . . | 4,596 7 0 | |
| (*c*) Registration (including Queen Margaret College, £29), . . . . . | 267 0 0 | |
| (*d*) Recognition towards expenses of inspection, . . . . . . . | 21 0 0 | |
| | | 6,964 16 6 |
| VI. Library— | | |
| (*a*) Subscriptions, . . . . . . | £59 17 0 | |
| (*b*) Revenue of Legacy Funds, . . | 48 0 0 | |
| (*c*) Annual Grant from M'Callum Fund for Celtic Library, . . . . | 10 0 0 | |
| | | 117 17 0 |
| | | £61,305 0 2¼ |

## EXPENDITURE.

| | | | | | | |
|---|---|---|---|---|---|---|
| I. University Court and Senate— | | | | | | |
| (*a*) Secretary of University Court (including outlays, £97 18s. 9½d.), | £397 | 18 | 9½ | | | |
| (*b*) Clerk of Senate, | 262 | 10 | 0 | | | |
| (*c*) Assistants to Clerk of Senate (including incidental expenses, £88 13s. 3d.), | 605 | 13 | 3 | | | |
| | | | | £1,266 | 2 | 0½ |
| II. General Council— | | | | | | |
| (*a*) Registration, | £101 | 2 | 3 | | | |
| (*b*) Clerk, | 50 | 0 | 0 | | | |
| (*c*) Printing and Outlays, per Clerk, | 126 | 19 | 3 | | | |
| | | | | 278 | 1 | 6 |
| III. Business— | | | | | | |
| (*a*) Factors (including outlays, £66 1s. 3d.), | £698 | 7 | 9 | | | |
| (*b*) Auditors, | 31 | 10 | 0 | | | |
| | | | | 729 | 17 | 9 |
| IV. Ministers' Stipends, | | | | 1,647 | 8 | 2 |
| V. Pension Fund, | | | | 4,000 | 0 | 0 |
| VI. Salaries— | | | | | | |
| (*a*) Principal, | £1,100 | 0 | 0 | | | |
| (*b*) Professors under Ordinance No. 25, | 23,651 | 0 | 0 | | | |
| (*c*) Other Professors, | 2,037 | 2 | 2 | | | |
| (*d*) Lecturers (including £1,650 at Queen Margaret College), | 5,259 | 2 | 1 | | | |
| (*e*) Assistants and Demonstrators (including £698 12s. 6d. at Queen Margaret College), | 5,346 | 7 | 0 | | | |
| (*f*) Examiners (including expenses, £131 17s.), | 1,430 | 2 | 0 | | | |
| (*g*) Reports on Applications for Recognition, | 13 | 13 | 0 | | | |
| | | | | 38,837 | 6 | 3 |
| VII. Library, | | | | 1,889 | 2 | 5 |
| VIII. Museum, | | | | 444 | 16 | 8 |
| IX. Observatory, | | | | 315 | 15 | 7½ |
| X. University Buildings— | | | | | | |
| (*a*) Maintenance and Upkeep of Grounds, | £2,829 | 4 | 0 | | | |
| (*b*) Lighting, | 389 | 8 | 5 | | | |
| (*c*) Heating and Ventilating, | 936 | 9 | 3 | | | |
| (*d*) Water, | 105 | 2 | 2 | | | |
| (*e*) Pathological Institute at Western Infirmary | 331 | 19 | 10 | | | |
| | | | | 4,592 | 3 | 8 |
| Carry forward, | | | | £54,000 | 14 | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Brought forward, | | | | £54,000 | 14 | 1 |
| XI. | Insurance, | | | | 322 | 12 | 3 |
| XII. | Service and Cleaning, | | | | 1,062 | 4 | 7 |
| XIII. | Class Expenses, Apparatus, etc.— | | | | | | |
| | (*a*) Prizes and Medals, | £248 | 7 | 8 | | | |
| | (*b*) Lantern Slides, | 132 | 9 | 9 | | | |
| | (*c*) Apparatus for Laboratories, etc., | 138 | 3 | 5 | | | |
| | (*d*) Class Expenses, | 1,604 | 1 | 5 | | | |
| | | | | | 2,123 | 2 | 3 |
| XIV. | Printing, Stationery, and Advertising, | | | | 882 | 8 | 0 |
| XV. | Chapel, | | | | 73 | 14 | 11½ |
| XVI. | Installation of Rector, | | | | 128 | 2 | 6 |
| XVII. | Bursaries, | | | | 199 | 5 | 7 |
| XVIII. | Public Burdens, Taxes, etc. (including £21 to Glasgow Police), | | | | 880 | 18 | 1¼ |
| XIX. | Taxes, Repairs on Buildings, Lighting, Heating, Service, etc., at Queen Margaret College, | | | | 856 | 9 | 0½ |
| XX. | Students' Representative Council, | | | | 20 | 0 | |
| XXI. | Miscellaneous, | | | | 74 | 8 | 1 |
| | | | | | £60,623 | 19 | 5¼ |
| | Surplus for 1900-1901, | | | | 681 | 0 | 9 |
| | | | | | £61,305 | 0 | 2¼ |

# PARTICULARS OF SUMS DEVOTED TO THE MAINTENANCE OF THE TEACHING STAFF AND OF EXAMINERS.

## FACULTY OF ARTS.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Humanity, . . | £1,430 0 0 | £76 3 9 | £475 0 0 | £1,981 3 9 |
| Greek, . . . | 1,000 0 0 | ... | 375 0 0 | 1,375 0 0 |
| English, . . . | 900 0 0 | 213 3 0 | 120 0 0 | 1,233 3 0 |
| French, . . . | ... | 300 0 0 | ... | 300 0 0 |
| German, . . . | ... | 300 0 0 | ... | 300 0 0 |
| Logic, . . . | 800 0 0 | 100 0 0 | 100 0 0 | 1,000 0 0 |
| Moral Philosophy, . | 800 0 0 | 100 0 0 | 100 0 0 | 1,000 0 0 |
| Political Economy, . | 600 0 0 | ... | ... | 600 0 0 |
| Education, . . | ... | 200 0 0 | ... | 200 0 0 |
| Mathematics, . . | 1,440 0 0 | 125 0 3 | 475 0 0 | 2,040 0 3 |
| Natural Philosophy, | 1,000 0 0 | 150 0 0 | 471 12 6 | 1,621 12 6 |
| History, . . . | 900 0 0 | ... | ... | 900 0 0 |
| Political Philosophy, | ... | 50 0 0 | ... | 50 0 0 |
| | £8,870 0 0 | £1,614 7 0 | £2,116 12 6 | £12,600 19 6 |

## FACULTY OF SCIENCE.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Astronomy, . . | £600 0 0 | ... | ... | £600 0 0 |
| Civil Engineering, . | 900 0 0 | ... | £376 0 0 | 1,276 0 0 |
| Naval Architecture, | 800 0 0 | ... | 100 0 0 | 900 0 0 |
| Geology, . . . | ... | £230 0 0 | ... | 230 0 0 |
| Metallurgical Chemistry, | ... | 4 14 6 | ... | 4 14 6 |
| Electrical Engineering, | ... | 13 4 7 | ... | 13 4 7 |
| | £2,300 0 0 | £247 19 1 | £476 0 0 | £3,023 19 1 |

## FACULTY OF MEDICINE.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Botany, . . . | £830 0 0 | ... | £275 0 0 | £1,105 0 0 |
| Natural History, . | 806 0 0 | ... | 223 12 6 | 1,029 12 6 |
| Physics,[1] . . . | ... | ... | ... | ... |
| Chemistry, . . | 1,300 0 0 | £150 0 0 | 480 0 0 | 1,930 0 0 |
| Anatomy, . . | 1,645 0 0 | 700 0 0 | 400 0 0 | 2,745 0 0 |
| Physiology, . . | 1,100 0 0 | ... | 300 0 0 | 1,400 0 0 |
| Materia Medica, . | 700 0 0 | 150 0 0 | 100 0 0 | 950 0 0 |
| Pathology, . . | 1,100 0 0 | 150 0 0 | 250 2 0 | 1,500 2 0 |
| Medical Jurisprudence, . . | 600 0 0 | ... | 100 0 0 | 700 0 0 |
| Surgery, . . . | 800 0 0 | 100 0 0 | 175 0 0 | 1,075 0 0 |
| Clinical Surgery, . | 215 17 8 | ... | 50 0 0 | 265 17 8 |
| Practice of Medicine, | 800 0 0 | 100 0 0 | 150 0 0 | 1,050 0 0 |
| Clinical Medicine, . | 305 4 6 | ... | 50 0 0 | 355 4 6 |
| Midwifery, . . | 700 0 0 | ... | 100 0 0 | 800 0 0 |
| Insanity, . . . | ... | 150 0 0 | ... | 150 0 0 |
| Diseases of the Eye, | ... | 81 5 0 | .. | 81 5 0 |
| Diseases of the Ear, | ... | 52 10 0 | ... | 52 10 0 |
| Diseases of the Throat, . . | ... | 52 10 0 | ... | 52 10 0 |
| | £10,902 2 2 | £1,686 5 0 | £2,653 14 6 | £15,242 1 8 |

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[1] Included under Natural Philosophy.

## FACULTY OF LAW.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Scots Law, | £800 0 0 | ... | ... | £800 0 0 |
| Conveyancing, | 600 0 0 | ... | ... | 600 0 0 |
| Jurisprudence,<br>Public International Law,<br>International Private Law, | ... | £300 0 0 | ... | 300 0 0 |
| Constitutional Law and History, | ... | 300 0 0 | ... | 300 0 0 |
| Civil Law, | ... | 300 0 0 | ... | 300 0 0 |
| Mercantile Law, | ... | 200 0 0 | ... | 200 0 0 |
| | £1,400 0 0 | £1,100 0 0 | ... | £2,500 0 0 |

## FACULTY OF THEOLOGY.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Divinity, | £521 9 0 | ... | ... | £521 9 0 |
| Hebrew and Semitic Languages, | 700 0 0 | £42 6 6 | £100 0 0 | 842 6 6 |
| Church History, | 436 18 7 | ... | ... | 436 18 7 |
| Biblical Criticism, | 557 12 5 | ... | ... | 557 12 5 |
| Natural Theology, | ... | 568 4 6 | ... | 568 4 6 |
| | £2,216 0 0 | £610 11 0 | £100 0 0 | £2,926 11 0 |

## SUMMARY.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Faculty of Arts, | £8,870 0 0 | £1,614 7 0 | £2,116 12 6 | £12,600 19 6 |
| Faculty of Science, | 2,300 0 0 | 247 19 1 | 476 0 0 | 3,023 19 1 |
| Faculty of Medicine, | 10,902 2 2 | 1,686 5 0 | 2,653 14 6 | 15,242 1 8 |
| Faculty of Law, | 1,400 0 0 | 1,100 0 0 | ... | 2,500 0 0 |
| Faculty of Theology, | 2,216 0 0 | 610 11 0 | 100 0 0 | 2,926 11 0 |
| | £25,688 2 2 | £5,259 2 1 | £5,346 7 0 | £36,293 11 3 |

## EXAMINERS FOR DEGREES, Etc.

| | | |
|---|---|---|
| I. Preliminary Examinations— | | |
| (*a*) Examiners, | £208 5 0 | |
| (*b*) Members of Joint Board, | 84 0 0 | |
| | | £292 5 0 |
| II. Degree Examinations— | | |
| (*a*) Examiners in Arts and Science, | £364 5 0 | |
| (*b*) Examiners in Medicine, | 500 0 0 | |
| (*c*) Examiners in Law, | 63 0 0 | |
| (*d*) Examiners in Theology, | 31 10 0 | |
| (*e*) Examiners for Higher Degrees, | 47 5 0 | |
| | | 1,006 0 0 |
| III. Expenses— | | |
| (*a*) Examiners, | £9 4 6 | |
| (*b*) Joint Board, | 72 4 7 | |
| (*c*) Superintendence, etc., | 50 7 11 | |
| | | 131 17 0 |
| | | £1,430 2 0 |

## CLASS FEES.

| | | | | | | |
|---|---|---|---|---|---|---|
| I. Faculty of Arts— | | | | | | |
| Humanity, | £932 | 8 | 0 | | | |
| Greek, | 429 | 9 | 0 | | | |
| English, | 775 | 8 | 6 | | | |
| French. | 145 | 19 | 0 | | | |
| German, | 49 | 7 | 0 | | | |
| Hebrew, | 132 | 6 | 0 | | | |
| Logic, | 456 | 15 | 0 | | | |
| Moral Philosophy, | 589 | 11 | 6 | | | |
| Political Economy, | 286 | 13 | 0 | | | |
| Education, | 500 | 17 | 0 | | | |
| Philosophy of Law, | 6 | 6 | 0 | | | |
| Mathematics, | 946 | 1 | 0 | | | |
| Natural Philosophy, | 409 | 10 | 0 | | | |
| Chemistry, | 159 | 12 | 0 | | | |
| Botany, | 30 | 9 | 0 | | | |
| Zoology, | 9 | 9 | 0 | | | |
| Astronomy, | 2 | 2 | 0 | | | |
| History, | 385 | 7 | 0 | | | |
| Constitutional Law, | 66 | 3 | 0 | | | |
| Roman Law, | 92 | 8 | 0 | | | |
| | | | | £6,406 | 1 | 0 |
| II. Faculty of Science— | | | | | | |
| Political Economy, | £6 | 6 | 0 | | | |
| Astronomy, | 13 | 13 | 0 | | | |
| Engineering, | 589 | 1 | 0 | | | |
| Naval Architecture, | 179 | 11 | 0 | | | |
| Geology, | 68 | 5 | 0 | | | |
| Mathematics, | 286 | 13 | 0 | | | |
| Natural Philosophy, | 490 | 7 | 0 | | | |
| Chemistry, | 468 | 6 | 0 | | | |
| Botany, | 36 | 15 | 0 | | | |
| Zoology, | 36 | 15 | 0 | | | |
| Physiology, | 31 | 10 | 0 | | | |
| Anatomy, | 30 | 19 | 6 | | | |
| | | | | 2,238 | 1 | 6 |
| III. Faculty of Medicine— | | | | | | |
| Botany, | £546 | 0 | 0 | | | |
| Zoology, | 444 | 3 | 0 | | | |
| Physics, | 278 | 5 | 0 | | | |
| Chemistry, | 510 | 6 | 0 | | | |
| Anatomy, | 1,593 | 16 | 6 | | | |
| Physiology, | 770 | 14 | 0 | | | |
| Materia Medica, | 642 | 12 | 0 | | | |
| Pathology, | 719 | 5 | 0 | | | |
| Forensic Medicine, | 402 | 3 | 0 | | | |
| Carry forward, | £5,853 | 4 | 6 | £8,644 | 2 | 6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Brought forward, | | | | £8,644 | 2 | 6 |
| Faculty of Medicine—*continued.* | £5,853 | 4 | 6 | | | |
| Surgery, | 617 | 8 | 0 | | | |
| Clinical Surgery, | 103 | 4 | 0 | | | |
| Practice of Medicine, | 338 | 2 | 0 | | | |
| Clinical Medicine, | 192 | 10 | 10 | | | |
| Midwifery, | 431 | 11 | 0 | | | |
| Insanity, | 224 | 14 | 0 | | | |
| | | | | 7,760 | 14 | 4 |
| IV. Faculty of Law— | | | | | | |
| Law, | £413 | 14 | 0 | | | |
| Conveyancing, | 205 | 16 | 0 | | | |
| Constitutional Law and History, | 70 | 7 | 0 | | | |
| Civil Law, | 46 | 4 | 0 | | | |
| Jurisprudence, | 31 | 10 | 0 | | | |
| Public International Law, | 34 | 13 | 0 | | | |
| International Private Law, | 34 | 13 | 0 | | | |
| Political Economy, | 6 | 6 | 0 | | | |
| Forensic Medicine, | 37 | 16 | 0 | | | |
| Mercantile Law, | 136 | 10 | 0 | | | |
| | | | | 1,017 | 9 | 0 |
| V. Faculty of Theology— | | | | | | |
| Divinity, | £129 | 3 | 0 | | | |
| Church History, | 97 | 13 | 0 | | | |
| Biblical Criticism, | 72 | 9 | 0 | | | |
| Hebrew (see under Faculty of Arts), | | — | | | | |
| | | | | 299 | 5 | 0 |
| VI. Non-qualifying Classes, | | | | 416 | 17 | 0 |
| | | | | £18,138 | 7 | 10 |
| Deduct Fees returned, | | | | 42 | 13 | 6 |
| | | | | £18,095 | 14 | 4 |

## APPENDIX—I.

# *LIST OF MEMBERS*

INCLUDED IN

# THE REGISTER

OF

# THE GENERAL COUNCIL

*FOR THE YEAR COMMENCING* 1*st JANUARY*, 1902,

WITH ABBREVIATED ADDRESSES, ETC.

*N.B.*—So far as information has been available down to the time of publishing the Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (*i.e.*, profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

Abbott,JohnC.,M.B.,C.M.,159Lichfieldrd.,Aston, Birmingham
Abdurahman, Abdullah, M.B., C.M., Cape Town, S. Africa
Abercrombie, Peter H., M.D., C.M., 10 Coburg place, London, W.
Abercrombie, Ralph, M.A., minister, Goole
Abernethy, Wm., M.A., tch., West Coats School, Cambuslang
Adam, Alex., M.B., C.M., Glasgow
Adam, Basil J., M.B., C.M., Beaufort, Victoria
Adam, David S., B.D., minister, 42 Margaret st., Greenock
Adam, Hector M., B.D., min., 20 Hamilton pl., Aberdeen
Adam, Jas., M.A., tch., 11 Montague st., Glasgow.
Adam, James, M.A., M.D., C.M., Hamilton
Adam, James, M.B., C.M., 60 Causeyside, Paisley
Adam, James, LL.B., stud., Castlehead, Paisley
Adam, James A., M.A., min., North U.F. Manse, Ellon
Adam, John, M.B., C.M., 2 N. Smithhills, Paisley
Adam, John, M.B., C.M., 1 Caroline st., Forres
Adam,John E., M.B., C.M.,Westgrove,Kilnhurst, Rotherham
Adam, John W., M.B., C.M., 6 Crown ter., Aberdeen
Adam, Matt. A., B.Sc., eng., 18 Southampton bdgs., London
Adam, Peter, B.D., min., Alford, Aberdeen
Adam, Robert H., M.A., M.D., C.M., 125 Newport st., Bolton
Adam, Thomas, M.A., minister, Cumbernauld
Adam, Thomas, M.A., stud.,Westgrove,Kilnhurst
Adam, Thos. B., M.D.,C.M.,37 Church st.,Brechin
Adam, William J., M.B., C.M., 138 Acre lane, London, S.W.
Adam, Wm. T., M.B., C.M., 48 London rd.,Carlisle
Adams, Geo. S.,M.A.,stud.,Gilbertfield, Hamilton
Adams, Jas. A., M.D., C.M., 5 Woodside cr., Glas.
Adams, John, M.A., B.Sc., rector, F.C. Training Coll., Glasgow
Adams, John, B.D., min., Inverkeillor, Arbroath
Adams, John, M.B., C.M., 1 Queen's cr., Glasgow
Adams, John E., B.D., min., F.C., Dreghorn
Adams, Miss Martha, M.B., Ch.B., Gilford, Co. D'n
Adamson,Jas., M.D.,Hetton-le-Hole,Fencehouses
Adamson, James, M.A., minister, Maree, N.S.W.
Adamson, Kilgour, M.B., C.M., Rectory, Armoy
Adamson, Wm. F., M.A., minister, Galashiels
Addie, John, M.A., min., Wilson Church, Perth
Affleck, John, M.A., D.Sc., Inspector of Chemical Works, Woolton
Agnew, Alex. P., M.B., C.M., Padiham, Lancs.
Agnew, Jas. F., M.B.,C.M.,13 Muir st.,Richmond, Melbourne
Agnew, James M., minister, Longhope, Orkney
Agnew, Rbt. R., M.A., tch., 11 Hopetoun place, Glasgow.
Aiken, James, M.A., assist. min., St. Andrew's cottage, Cowdenbeath
Aiken, James, M.A., writer, Dalmoak
Aiken, John B., M.A., writer, Dalmoak
Aikman, Chas. B., writer, 208 W. George st., Glas.
Aikman, Chas. M., M.A., D.Sc., chemist, Stirling
Aikman, John, M.D., C.M., Queen's rd., Guernsey
Aikman,Mat.,M.A.,M.B.,Ch.B.,39Cecilst.,H'lh'd.
Ainslie, Jas. L., M.A., stud., 20 Kelso rd., Leeds
Ainsworth, Wm. T., M.B., C.M., Shipley, Yorks.
Aird, Alex. W., M.B., C.M., Newmilns
Aird, Robert, M.A., tch., Tarbert, Loch Fyne
Aitchison, Jas., B.Sc., eng., 3 Barone rd., Rothesay
Aitken, David, M.A., tch., Academy, Motherwell
Aitken, George J., M.A., tch., York av., J'danhill
Aitken,Geo.R.,M.A.,min.,O.S.Manse,K'kint'loch
Aitken, James, M.A., minister, Valparaiso
Aitken, Jas., M.B., C.M., 15 Dalton sq., Lancaster
Aitken, Jas., M.B., C.M., High road, Ilford
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Young, David, M.A., min., 2 Annfield ter., Partick
Young, Dav., B.D., min., Knoxland, Dumbarton
Young, David J., M.B., Ch. B., 255 Golfhill dr., Glas.
Young, Eben. D., M.A., W.S., 13 Frederick st., Edin.
Young, Frank S., M.A., acct., Kansas, U.S.A.
Young, Geo. B., B.L., solic., Mt. Pleasant, Falkirk
Young, Geo. G. B., M.A., tch., 397 Gt. Western road, Glasgow
Young, Geo. M., B.Sc., eng., 268 Kenmure st., Pollokshields
Young, Henrietta F., M.B., Ch.B., Parkb'rn, Kils'th
Young, Homer, M.A., min., F.C. manse, Gourock
Young, Hugh C. T., M.D., C.M., Sydney
Young, James, M.A., tch., South Schoolhouse, Biggar
Young, James, M.D., C.M., Cloud's Hill House, St. George, Bristol
Young, James, minister, Dyrock, Prestwick
Young, Jas., M.A., min., N. Parish manse, Paisley
Young, Jas. J. T., M.B., C.M., 1 Maxwell dr., Glas.
Young, Jas. M., M.B., C M., Herbertfield, Hamilton
Young, John, M.D., prof., University, Glasgow
Young, John, M.B., C.M., The Thorn, Earlston
Young, John, M.D., 91 Up. Hanover st., Sheffield
Young, John, minister, Greenock
Young, John, M.A., B.Sc., 61 Clyde street, Glasgow
Young, John, M.B., C.M., 3 Whitehill gar., Glasg.
Young, John, M.A., minister, Greenfield, Iowa
Young, John, M.B., C.M., Bonnybridge
Young, John, M.B., Ch.B., 20 St. Vincent cr., Glas.
Young, John, B.D., prob., 101 Greenhead st., Glas.
Young, John C., M.A., M.B., C.M., Aden, Arabia
Young, John D., M.B., Ch.B., 109 Whitehill st., Glas.
Young, John F., M.A., stud., 19 Priory pl., Perth
Young, Peter T., M.A., stud., 13 Kew terrace, Glas.
Young, Robert Arthur, LL.B., advocate, Chicago
Young, Robert B., M.A., M.B., C.M., 8 Crown gardens, Glasgow
Young, Robt. B., M.A., tch., 15 Briarbank terrace, Edinburgh
Young, Robt. H., M.B., C.M., Tsomo, Transkei
Young, Robt., M.A., tch., Academy, Kilmarnock
Young, Robert R., M.D., C.M., 2 Melbourne street, Leicester
Young, Robert T., M.A., probationer, Oakwood, Bridge-of-Allan
Young, Thos., M.D., C.M., 82 Butler st., M'chester
Young, Thos. C., LL.B., writer, 93 West Regent street, Glasgow
Young, William, M.A., minister, Baldernock
Young, Wm., M.B., C.M., 32 Lilybank gardens, Hillhead
Young, Wm. G., M.D., 22 Monteith row, Glasgow
Young, William, minister, Barrhead
Young, William M., M.A., M.D., C.M., 171 Woodhouse lane, Leeds
Young, William R., M.A., tch., Pub. sch., Larbert
Young, Wm. S., M.D., C.M., Helensburgh
Younger, Arch. S., B.Sc., eng., 8 Walmer crescent, Glasgow
Younger, Robt. T., LL.B., advocate, 16 Heriot row, Edinburgh
Yuill, Miss Isobel, M.A., Hillside, Partick
Yuill, John, M.D., C.M., 160 Alma st., Birmingh'm
Yuille, Geo. S., B.D., prob., Roslyn, Bothwell
Yuille, James, minister, Peterhead

Zahm, Frank B., B.Sc., naval arch., New York
Zinkeisen, Wm., B.Sc., mine manager, Cali, Colombia
Zuill, John, M.A., M.B., C.M., Kincardine-on-F'th
Zuill, Robert, M.B., C.M., Carnock, Dunfermline

## APPENDIX II.

## *EXTRA-ACADEMICAL TEACHING.*

*N.B.*—Every application for recognition must be accompanied by a payment to the University Factors, Messrs. Hill & Hoggan, 194 Ingram Street, Glasgow, of a fee of £5 5s., to be placed to the credit of a fund for defraying the cost of investigation by experts of the fitness of the teacher applying, and of the accommodation, apparatus, and teaching appliances at the disposal of the teacher.

The following regulations for the recognition of Extra-Academical Teaching under Ordinances Nos. 14, 12, and 23, were adopted by the University Court on 14th June, 1894 :—

### IN THE CASE OF INDIVIDUAL EXTRA-ACADEMICAL TEACHERS.

I. Every application shall be made to the Secretary of the University Court and shall supply the following information :—

(*a*) The registrable or other qualification or qualifications of the applicant.

(*b*) A statement of his opportunities of studying the subject and the length of time devoted thereto.

(*c*) A statement of his experience in teaching the subject.

(*d*) A note of any of his published articles or works on the subject.

(*e*) The appointments which he holds as a teacher of the subject in which he requests recognition, and a statement whether the course for which recognition is sought has previously been conducted by him, and if so, for how long. If the applicant is a teacher in a Medical School, College of Science, or other similar Institution, the most recent issue of the Calendar of such School, College, or Institution, should be forwarded.

(*f*) The number of meetings to which the course extends, whether each meeting is for one hour or longer, and a statement of the proportion of the course to be devoted to lectures, practical demonstrations, examinations and tutorial work. In the case of a practical course, information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the teacher for whom recognition is sought, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects treated in the course and of the books proposed for the use of students should also be sent in every case.

(*g*) The hour or hours at which the course is conducted.
(*h*) The accommodation, apparatus, and teaching appliances provided for the class.
(*i*) The teaching or examining bodies which have recognized his course.

II. In the case of an applicant conducting courses in Glasgow or its neighbourhood an inspection shall be made of his accommodation and appliances for teaching.

III. Every Extra-Academic Teacher in Glasgow whose course has been recognized under Ordinance No. 12 or Ordinance No. 14 shall, at the commencement of each session, call the attention of his whole class to the provisions of the Ordinance as to enrolment and payment of fee at the University by all students who desire afterwards to graduate there; he shall also call attention to the University requirements as to preliminary examination (more stringent in the case of medical students than the minimum required by the General Medical Council); and shall advise any students looking forward to a University degree to procure from the Matriculation Office a copy of the syllabus of regulations applicable to their course.

IV. Every recognized Extra-Academical Teacher shall annually within one month of the close of the session furnish the University Court with a return of

(*a*) The number of students who have attended the recognized course or courses, in such manner as to qualify *pro tanto* for graduation in the University of Glasgow.
(*b*) Any change that may have been made in the accommodation or appliances provided.
(*c*) A statement showing, for the year next ensuing, the number of meetings to which the course extends, whether each meeting is for one hour or longer, and the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether, or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the recognized teacher, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects to be treated in the course, and of the books proposed for the use of students, should also be sent.

V. The certificate of attendance granted by Extra-Academical Teachers should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fee charged, and bear that the student has duly performed the work of the class.

VI. Every candidate not being a matriculated student attending the course of an Extra-Academical Teacher in Glasgow, recognized for the purposes of graduation in Medicine or Pure Science, must at the commencement of each year enrol his name in a book kept at the University for that purpose, paying a fee of the same amount as the matriculation fee, and having in respect thereof a right to the use of the University Library. (Ord. No. 14, § VIII. 5 ; Ord. No. 12, § V.)

VII. The fee for attendance for the purposes of graduation on the courses of instruction of an Extra-Academical Teacher in Glasgow shall not be less than the fee for the corresponding University Class. (Ord. No. 14, § VIII. 6 ; Ord. No. 12, § IV. 2 ; Ord. No. 23, § IV. 2.)

VIII. The Court will not in any case recognize for the purposes of graduation in Medicine the course of any teacher who teaches at the same time more than one of the subjects, except where the applicant is a professor or teacher of any endowed public college or institution, who, by the terms of his appointment, is required to teach more than one of the subjects, and in that case recognition can be granted in one subject only. (Ord. No. 14, § VIII. 7.)

IX. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

X. The recognition of any teacher who fails to furnish the information required in terms of Regulation IV., or a sufficient explanation relative to such failure, or who has ceased for the period of two consecutive sessions to teach the subject in which he is recognized, shall *ipso facto* terminate.

### IN THE CASE OF SCHOOLS OR INSTITUTIONS.

I. Every application shall be made to the Secretary of the University Court, and shall supply the following information :—

(*a*) A statement of the number of teachers and a detailed syllabus of the curriculum courses proposed to be given, or, in the case of practical classes, information of a similar kind.

(*b*) The number and duration of lectures proposed to be given and the number of examinations, whether written or oral, deemed necessary, or in the case of a practical class, information of a similar kind. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

(*c*) The hours of lectures.

(*d*) The teaching or examining bodies which have already recognized the curriculum or certificate of the school or institution making application.

(*e*) A statement as to the accommodation, apparatus, and appliances at the disposal of the teachers in the school or institution making application.

(*f*) A note of the fees proposed to be charged.

II. The Court shall, if it thinks fit, cause an inspection to be made of the accommodation, apparatus, and teaching appliances provided by the school or institution making application.

III. Every recognized school or institution shall annually within one month of the close of the session furnish the University Court with a return of (*a*) The number of students who have attended the recognized school or institution in such manner as to qualify *pro tanto* for graduation in the University.

(*b*) Any change that may have been made in the accommodation or appliances provided.

(*c*) A statement showing, for the year next ensuing, the number of meetings to which the courses extend, whether each meeting is for one hour or longer, and the proportion of the courses to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of practical courses information should be given as to the manner of conducting them, the number of examinations, oral or written, and whether, or to what extent, lectures or tutorial work form part of the courses. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

IV. The certificates of attendance granted by recognized schools or institutions should in all cases state the number of lectures or meetings for practical instruction in the courses, the number of occasions on which the student was present, the fees charged, and bear that the student has duly performed the work of the classes.

V. The fees for attendance for the purposes of graduation on the courses of instruction in a recognized school or institution shall not be less than the fees for the corresponding University classes. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VI. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

## *LIST OF EXTRA-ACADEMICAL TEACHERS.*

List of Extra-Academical Teachers recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine and Science, in terms of Ordinances of the Universities Commissioners (1858 and 1889), the names of those who are recognized for Graduation in Science being printed in *italics*.

| | | |
|---|---|---|
| 19 April, 1876, | Dr. James Gow Black, Otago, | *Chemistry.* |
| ,, | Miller Coughtrey, M.B., Otago, | *Anatomy.* |
| 7 Nov., 1876, | John Dougall, M.D., Glasgow, | *Materia Medica.* |
| ,, | James Stirton, M.D., Glasgow, | *Midwifery.* |
| 12 Sept., 1877, | A. M. Buchanan, M.D., Glasgow, | *Anatomy.* |
| 21 Dec., 1880, | William Craig, M.D., Edinburgh, | *Materia Medica and Therapeutics.* |
| ,, | John Barlow, M.D., Glasgow, | *Physiology.* |
| 24 May, 1881, | Byrom Bramwell, M.D., Edinburgh, | *Practice of Medicine.* |
| 22 July, 1885, | James J. Dobbie, M.A., D.Sc., University Coll., Bangor, | *Chemistry.* |
| ,, | Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor, | *Botany.* |
| 28 April, 1886, | A. Smithells, B.Sc., Yorkshire College, Leeds, | *Chemistry.* |

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|---|---|---|
| 4 Oct., 1887, | Claud M. Thompson, University College, Cardiff, | *Chemistry.* |
| ,, | W. Newton Parker, University College, Cardiff, | *Zoology.* |
| 27 Feb., 1890, | James Robertson Watson, M.A., Glasgow, | *Chemistry and Practical Chemistry.* |
| ,, | Philip J. White, M.B., University College, Bangor, | *Zoology.* |
| 5 Jan., 1892, | B. C. A. Windle, M.D., Queen's Coll., Birmingham, | *Anatomy.* |
| ,, | T. W. Bridge, M.A., Mason Science Coll., Birmingham, | *Zoology.* |
| 28 April, 1892,<br>,, | James Swanson, M.A., M.B., C.M., St. Mungo's Coll., Glasgow, | *Botany.* |
| 23 Feb., 1893, | *James Blyth, M.A.*, Technical College, Glasgow, | *Physics.* |
| ,, | J. W. Carr, M.A., University College, Nottingham, | *Botany.* |
| 27 April, 1893, | *G. G. Henderson, D.Sc.*, Technical College, Glasgow, | *Chemistry.* |
| ,, | J. H. Poynting, D.Sc., Mason College, Birmingham, | *Physics.* |
| 20 July, 1893, | J. Berry Haycraft, M.D., University College, Cardiff, | *Physiology.* |
| 9 Nov., 1893, | A. P. Aitken, D.Sc., Edinburgh, | *Chemistry.* |
| ,, | J. F. King, Edinburgh, | *Chemistry.* |
| ,, | W. I. Macadam, Edinburgh, | *Chemistry.* |
| ,, | J. B. Readman, D.Sc., Edinburgh, | *Practical Chemistry.* |
| ,, | D. N. Paton, M.D., Edinburgh, | *Physiology and Practical Physiology.* |
| ,, | A. Bruce, M.D., Edinburgh, | *Pathology and Practical Pathology.* |
| ,, | F. W. N. Haultain, M.D., Edinburgh, | *Midwifery.* |
| ,, | R. M. Murray, M.B., Edinburgh, | *Midwifery.* |
| | G. A. Gibson, M.D., Edinburgh, | *Practice of Medicine.* |
| | R. W. Philip, M.D., Edinburgh, | *Practice of Medicine.* |
| | W. Husband, M.D., Edinburgh, | *Vaccination.* |
| 14 Nov., 1893, | R. B. Ness, M.A., M.B., Anderson's College, Glasgow, | *Materia Medica and Therapeutics, and Practical Pharmacy.* |
| ,, | Dawson Turner, M.D., Edinburgh, | *Physics.* |
| 8 Feb., 1894, | J. W. B. Hodsdon, M.D., Edinbro', | *Surgery.* |
| ,, | H. E. Clark, M.R.C.S., Glasgow, | *Surgery.* |
| 8 Mar., 1894, | John S. M'Laren, M.B., C.M., Edin., | *Surgery.* |
| 14 June, 1894, | George T. Beatson, M.D., Glasgow, | *Surgery.* |
| ,, | Francis M. Caird, M.B., C.M., Edin., | *Surgery.* |
| ,, | Alexander James, M.D., School of Medicine, Edinburgh, | *Practice of Medicine.* |

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|---|---|---|
| 14 June, 1894, | A. N. M'Alpine, Minto House, Edinburgh, | *Botany.* |
| ,, | William Russell, M.D., School of Medicine, Edinburgh, | *Pathology and Practical Pathology.* |
| ,, | Henry Alexis Thomson, M.D., Minto House, Edinburgh, | *Surgery.* |
| 2 Aug., 1894, | George B. Todd, M.B., C.M., Anderson's College, Glasgow, | *Zoology.* |
| ,, | John Hardie, M.B., C.M., F.R.C.S.E., Edinburgh School of Medicine, | *Anatomy and Practical Anatomy.* |
| ,, | Percy F. Frankland, Ph.D., B.Sc., F.R.S., Birmingham, | *Chemistry.* |
| 13 Dec., 1894, | *R. Stanfield, A.R.S.M., A.M. Inst. C.E.*, Heriot Watt Coll., Edin., | *Mechanical Engineering.* |
| ,, | *John Gibson, Ph.D.*, Heriot Watt College, Edinburgh, | *Chemistry and Chemical Laboratory.* |
| 14 Feb., 1895, | A. H. Trow, B.Sc., University College, Cardiff, | *Botany.* |
| ,, | A. B. Robertson, F.C.S., Coatbridge Technical School and Mining College, | *Chemistry.* |
| ,, | Malcolm Laurie, B.A., D.Sc., F.R.S.E., St. Mungo's College, Glasgow, | *Zoology.* |
| 12 Dec., 1895, | Peter Bennett, Anderson's College Medical School, Glasgow, | *Physics.* |
| ,, | T. K. Dalziel, M.B., Anderson's College Medical School, Glas., | *Surgery.* |
| 9 Jan., 1896, | Charles Workman, M.D., Royal Infirmary, Glasgow, | *Pathology and Practical Pathology.* |
| 18 June, 1896, | John Edgar, M.A., B.Sc., M.B., Anderson's College Medical School, Glasgow, | *Midwifery.* |
| ,, | *George A. Gibson, M.A.*, Technical College, Glasgow, | *Mathematics.* |
| 9 July, 1896, | *Alexander MacLay, B.Sc., C.E.*, Technical College, Glasgow, - | *Engineering Drawing and Design.* |
| 12 Nov., 1896, | John Lindsay Steven, M.D., Glasg., | *Practice of Medicine.* |
| ,, | *Francis G. Baily, M.A.*, Heriot Watt College, Edinburgh, | *Physics and Electrical Engineering.* |
| 11 Mar., 1897, | A. Campbell Clark, M.D., St. Mungo's College, Glasgow, and Lanark District Asylum, Hartwood, | *Mental Diseases.* |
| 6 May, 1897, | Richard J. A. Berry, M.D., F.R.C.S.E., New School of Medicine, Edinburgh, | *Anatomy.* |
| 9 June, 1898, | John Carswell, L.F.P.S.G., L.R.C.P.E., Anderson's College Medical School, Glasgow, | *Mental Diseases.* |

| | | |
|---|---|---|
| 9 June, 1898, | J. R. Whitaker, M.B., Surgeon's Hall, Edinburgh, | *Anatomy and Practical Anatomy.* |
| 10 Nov., 1898, | Hugh Galt, M.B., C.M., St. Mungo's College, | *Forensic Medicine and Public Health.* |
| ,, | W. E Thomson, M.D., Anderson's Coll. Medical School, Glasgow. | *Physiology.* |
| ,, | Robert A. Fleming, M.D., School of Medicine, Edinburgh, | *Practice of Medicine.* |
| 13 July, 1899, | A. Francis Dixon, D.Sc., University College of South Wales, Cardiff, | *Anatomy and Practical Anatomy.* |
| ,, | A. L. Selby, M.A., University College of South Wales, Cardiff, | *Physics.* |
| ,, | D. R. Paterson, M.B., University College of South Wales, Cardiff, | *Practical Pharmacy.* |
| 9 Nov., 1899, | Theodore Shennan, M.D., School of Medicine, Edinburgh, | *Pathology.* |
| 26 April, 1900, | H. Harvey Littlejohn, M.A., M.B., B.Sc., Edinburgh, | *Medical Jurisprudence and Public Health.* |
| ,, | Carstairs C. Douglas, B.Sc., M.D., Anderson's College Medical School, Glasgow, | *Medical Jurisprudence and Public Health.* |
| 10 July, 1900, | *J. C. Beattie, D.Sc.*, South African College, Cape Town, | *Natural Philosophy.* |
| ,, | *P. D. Halm, Ph. D.*, South African College, Cape Town, | *Chemistry.* |
| 8 Nov., 1900, | R. S. Thomson, B.Sc., M.D., Anderson's College Medical School, Glasgow, | *Practice of Medicine.* |
| 14 Mar., 1901, | *John W. Paterson*, West of Scotland Agricultural College, | *Agricultural Chemistry.* |
| ,, | *A. N. M'Alpine*, West of Scotland Agricultural College, | *Agricultural Botany.* |
| ,, | *J. J. F. X. King*, West of Scotland Agricultural College, | *Agricultural Entomology.* |
| ,, | *John R. M'Call*, West of Scotland Agricultural College, | *Veterinary Hygiene.* |
| 3 Oct., 1901, | *George R. Thompson*, Technical College, Glasgow, | *Geology.* |
| ,, | Alexander Macphail, M.D., St. Mungo's College, | *Anatomy.* |
| 14 Nov., 1901, | T. K. Munro, St. Mungo's College, | *Practice of Medicine.* |
| 1 May, 1902, | Marion T. Newbigin, D.Sc., Medical College for Women, Edinburgh, | *Zoology.* |

And the ordinary Physicians and Surgeons of any General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons. (See Ordinance No. 14, Section VII. (5).)

# *LIST OF INSTITUTIONS OR SCHOOLS.*

List of Schools or Institutions recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine, Law, and Science in terms of Ordinances of the Universities Commission (1889).

| | |
|---|---|
| 14 Nov., 1895, | London School of Medicine for Women, in respect of the following courses: *Chemistry (Systematic and Practical), Anatomy (Systematic and Practical), Physiology (Systematic and Practical), Practical Pharmacy, Practical Pathology, Medical Jurisprudence and Public Health, Clinical Surgery, Clinical Medicine, Practical Midwifery, Mental Diseases, Out-Practice or Dispensary and Vaccination.* |
| 23 Mar., 1896, | Owen's College, Manchester. |
| ,, | University of New Zealand. If a candidate for the First Professional Examination in this University has obtained a Degree in Science or in Arts in the University of New Zealand, granted after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, such candidate is exempted from the examination in such subject or subjects. (Ordinance No. 54, Section IV.) |
| 23 July, 1896, | Universities of Oxford, Cambridge, and Dublin, and the four Inns of Court, London. The above are recognized for the purposes of Graduation in Law under Ordinance No. 39 [General No. 11.—Regulations for the Degree of Bachelor of Laws (LL.B.)] and subject to Section II. thereof. |
| 11 Mar., 1897, | Glasgow Eye Infirmary. |
| 10 Nov., 1898, | University of Louvain. This University has been approved by the University Court as a University in which Courses for the four subjects represented in the First Science Examination may be taken and reckoned *pro tanto* under Ordinance No. 23, Section IV. (2). |
| 13 April, 1899, | Harvard University, Boston, U.S.A. Approved under Ordinance No. 23, Section IV. |

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## APPENDIX III.

# *UNIVERSITY SOCIETIES.*

### GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by John M'Intyre, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council. A further sum of £12,000 was raised by the Union Bazaar of 1889, and devoted to furnishing and endowing the building. In 1893, to meet the increasing membership, the building was largely extended at a cost of £2800. The Union is governed by a Board of Directors, appointed by the Committee of Management which is elected annually at the General Meeting of the Members.

*Objects.*—The objects of the Union are to provide Students with the comforts and conveniences of a Social Club, to hold debates, and to form a centre to which the various University Societies may be affiliated. The Buildings comprise a Debating Hall, a Dining Hall, Reading and News Rooms, Billiard and Smoking Rooms, Committee Rooms, Lavatories, etc.

*Membership.*—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Seven Shillings and Sixpence. Students may join for the summer session only, on payment of Four Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

*President*—G. D. Valentine, M.A.
*Vice-President*—James J. MacLehose, M.A.
*Hon. Secretary*—C. M. Drew, M.A., The Union.
*Hon. Treasurer*—Allan F. Baird.
*Assistant Secretary and Treasurer*—D. J. M‘Leish, M.A.
*Librarian*—J. Chambers.
*Convener of Games Committee*—D. Penman.

*Board of Directors*—The Office-bearers; A. J. Fleming, LL.B., and A. F. Bell (former students); P. Spens, M.A., and D. M. Hutcheson, M.A. (students).

*Former Presidents of the Union.*

1890. John H. Harley, M.A.
1890–91. Robert G. Bell, M.D.
1891–92. John Paterson, M.A., M.B.
1892–93. F. A. Macquisten, B.L.
1893–94. Joshua Ferguson, M.A., M.B.
1894–95. Joshua Ferguson, M.A., M.B.
1895–96. Rev. J. A. Stokes Little, M.A.
1896-97. W. C. Henderson, M.A., B.Sc. (resigned Oct., 1896).
1896-97. A. M. Scott, M.A.
1897-98. John C. Monteith, M.A.
1898-99. William F. Smillie, M.A.
1899-1900. George F. Buchan, M.B., Ch.B.
1900-1901. Ivy M‘Kenzie, M.A.
1901-1902. Andrew F. Bell.

## THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all Students attending the Divinity Hall of the University; but all matriculated Students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

*Office-Bearers for* 1902-3.
*Honorary President*—The Rev. Professor James Cooper, D.D.
*President*—Norman R. Mitchell, M.A.
*Vice-President*—Matthew Babington, M.A.
*Secretary*—W. N. Monteith, B.A., Glenluart, Moniaive, Dumfriesshire.
*Treasurer*—George Muir, M.A.

*Committee.*

| | |
|---|---|
| P. G. Smith, M.A. | A. S. Dunlop, M.A. |
| W. A. Gillies, M.A. | Thomas Low, M.A. |

(With two students of the first year in Divinity to be elected in November.)

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### GLASGOW UNIVERSITY MEDICO-CHIRURGICAL SOCIETY.

This Society was formed by the Medical Students in February, 1802.

The principal object of the Society is the prosecution of Medical Research by Essays, Debates, Lantern and Microscopical Demonstrations, and visits to Institutions and other places of interest to medical students.

All Medical Students and Medical Graduates of less than one year's standing are eligible for Ordinary Membership, on payment of the Annual Subscription of One Shilling and Sixpence.

Meetings of the Society are held in the Union at 7 o'clock on Friday evenings during the Winter Session.

*Office-Bearers for* 1902-3.
*Honorary President*—Sir Hector C. Cameron, M.D.
*President*—Joseph White, M.A., B.Sc. *Vice-President*—John Morison.
*Secretaries.*
*Corresponding*—Spencer Mort, Viewfield, Partickhill.
*Minute*—David Blackley.
*Treasurer*—Daniel F. Riddell, M.A. *Demonstrator*—W. Blair Martin.
*Librarian*—Forrest Brechin.

*Committee.*

| | |
|---|---|
| R. T. Leiper. | J. S. Dunn, M.A. |
| John Kerr. | E. M. Watkins. |
| A. B. Aitken. | T. L. Craig. |
| A. W. Anderson. | D. M. Reid. |

(With two Students of the first year in Medicine to be elected in November.)

Books are given out at the ordinary meetings, or on written application to the Librarian.

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### DIALECTIC SOCIETY.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All matriculated men Students are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

*Honorary President.*
Dudley J. Medley, M.A., Professor of History.
*President*—Leyton P. Richards.
*Vice-Presidents.*
*Senior*—J. Spreull, M.A. *Junior*—Douglas Wilson.
*Secretaries.*
*Senior*—Weir Grieve, The Union. *Junior*—W. Y. Turner, M.A.
*Treasurer*—Wylie R. MacIntyre. *Macer*—James Menzies.

*General Board.*

W. W. Gillan, M.A.
J. R. Haldane.
W. C. Grieve.
P. Spens, M.A.
E. H. Jones.
C. J. Vincent.
R. M. Wilson.
Henry L. Menzies.

## GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

*Office-Bearers.*
*President*—Rev. Professor James Robertson, D.D.
*Vice-President*—Rev. R. B. Pattie, B.D.
*Corresponding Secretary*—Rev. James Young, B.D.
*Recording Secretary*—Rev. George Anderson, B.D.
*Treasurer*—Rev. Robert Gardner, B.D.

## GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

*Office-Bearers.*

*Honorary Presidents.*
Professor G. G. Ramsay, LL.D.
Professor J. S. Phillimore, M.A.
Professor W. A. Raleigh, M.A.
*President*—D. A. Slater, M.A.
*Vice-Presidents* D. H. Crawford, M.A.
G. Nelson.
*Secretary*—E. H. Jones, 1 The University.
*Treasurer*—J. E. Scott.

*Committee.*

W. Manson.
A. Patrick.
J. Ballantyne.
George Beaumont.
H. Wilson.

## GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

This Society was instituted for the promotion of Philosophical Discussion and Investigation. It meets on alternate Wednesday Evenings at Eight o'clock during the Winter Session, in the Union. Ordinary Membership is open to all Students who have attended or are attending Philosophical Classes in any University. The annual subscription is one shilling for those who join through the Union, and one shilling and sixpence for those who do not.

*Office-Bearers for Session* 1902-3.

*Honorary President*—Professor Émile Boutroux.

*Honorary Vice-Presidents.*

Principal Story,
Professor Jones,
Professor Raleigh, and the
Professor of Logic. } *Ex Officiis.*

*President*—N. D. Smith, M.A.
*Vice-President*—W. N. Bell.
*Secretary*—A. D. Thomson, 12 Sutherland Avenue.
*Treasurer*—A. Borland, M.A.

*Members of Committee.*

Miss Beard.
Messrs. MacEwen, Reith, Chalmers, and Rowse.

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## GLASGOW UNIVERSITY ENGINEERING SOCIETY.

(Instituted 1891.)

The objects of this Society are the promotion of the study of Engineering and the diffusion of Engineering information among the members, by the reading of papers, by discussions, by visits to Engineering works in progress, and by such other means as the Society shall approve.

The membership is open to all past and present Students of the University.

*Office-Bearers for Session* 1902-3.

*Honorary President*—Robert Caird, LL.D., F.R.S.E.
*Honorary Vice-Presidents*—{ Professor Archibald Barr, D.Sc., M.Inst.C.E.
Professor J. H. Biles, LL.D., M.I.N.A.
*President*—H. Bamford, M.Sc., A.M.I.C.E.

*Vice-Presidents.*

| *Engineering*— | *Naval Architecture*— |
|---|---|
| J. B. Henderson, D.Sc. | C. S. Douglas, B.Sc., M.I.N.A. |

*Hon. Secretaries*—{ N. J. Maclean, 9 Huntly Terrace, Kelvinside, N.
J. G. Gray, 11 The University.
*Minute Secretary*—B. P. Haigh.
*Treasurer*—D. J. Kerr, The Union.

*Committee.*

| *Engineering*— | *Naval Architecture*— |
|---|---|
| J. W. French, B.Sc. | J. E. Steele. |
| A. Williamson. | J. B. Dickie. |
| W. G. Strang, B.Sc. | |

### GLASGOW UNIVERSITY PHYSICAL SOCIETY.

This Society was founded in 1884 "for the discussion of scientific subjects in general, and the diffusion of scientific information among its members, by special communications, and any other means which the Society may from time to time approve."

Meetings are held during the Winter Session on alternate Wednesdays at 3.30 P.M. The syllabus for the year is issued in autumn, and may be had from the Secretary after the commencement of the Winter Session.

All past and present students of the University who are interested in Physical Science are eligible for membership. The subscription for the ensuing year has been fixed at One Shilling.

*The Office-Bearers are :—*
*Honorary President*—Lord Kelvin, G.C.V.O., F.R.S.
*President*—Professor Gray, LL.D., F.R.S.
*Vice-President*—J. W. Peck, M.A.
*Secretary and Treasurer*—D. B. M'Quistan, M.A.

Letters should be addressed to the Secretary of the Society at the Physical Laboratory.

### GLASGOW UNIVERSITY PHOTOGRAPHIC CLUB.

The Club endeavours to further a knowledge of Photography, as an art as well as a science, among all students and former students of this University.

Papers will be read, and discussions and demonstrations take place monthly during the Winter Session. Excursions are held during the Summer Session.

*Office-bearers*, 1902-3.
*Honorary President*—Professor M'Kendrick, M.D., LL.D., F.R.S.
*Honorary Vice-Presidents*— J. H. Teacher, M.A., M.B., C.M.
W. K. Hutton, M.A., M.B., C.M.
*President*—W. W. B. Brodie, M.B., C.M.
*Vice-Presidents*— J. W. Peck, M.A.
A. Slater Dunlop, M.A.
*Honorary Secretary*—J. Marshall, The Union.
*Honorary Treasurer*—W. H. Duncan.

*Committee.*

D. A. Dick.
J. D. Kidd.
J. I. Greig.
R. Howell.
D. Ross, Jr.

### GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

*Office-Bearers for* 1902-3.
*Honorary President*—Sir John Neilson Cuthbertson, LL.D.
*President*—W. A. Gillies, M.A.
*Vice-President*—P. G. Smith, M.A.
*Superintendents of Home Missions*— N. R. Mitchell, M.A.
W. M. Tait, M.A.

*Senior Secretary*—A. P. S. Tulloch, M.A., Divinity Hall Library, The University.
*Junior Secretary*—A. S. Dunlop, M.A.
*Librarian*—B. S. Gilfillan, M.A.
*Treasurers*—W. W. Clark, M.A.
A. W. S. Forbes, M.A.

*Summer Committee.*

The Office-bearers and Messrs. W. Anderson, J. Chrystal Muir, M.A., and K. O. Macleod, M.A.

*Members of Committee.*

| | |
|---|---|
| *From Theology*— | *From Arts*— |
| John Gilmour, M.A. | John B. Stephen. |
| J. Chrystal Muir, M.A. | — Dunn. |
| George Muir, M.A. | — Swan. |
| W. N. Monteith, B.A. | *From Law*— |
| | — Roy. |

*From Medicine*—A. C. Russell.

Three Representatives from First Year Theology to be appointed in November.

### GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

The headquarters of the Association are at 69 Bank Street, where there are carried on weekly Bible-reading circles and daily Prayer meetings. Other features of the work are :—The issue of a Handbook at the beginning of each winter session to all new students, monthly addresses by well-known preachers, deputations to Evangelistic meetings.

*Office-Bearers.*

*Hon. President*—Professor Glaister, M.D.
*Hon. Vice-President*—John L. Morison, M.A.
*President*—Alexander M'Leish.
*Vice-President*—Berkeley H. Robertson, M.A.
*General Secretary*—John W. Arthur, Jun., 9 Athole Gardens.
*Assistant Secretary*—William Y. Turner, M.A.
*Deputation Secretary*—Norman B. Stewart.
*Bible-circle Secretary*—John B. Stevenson.
*Treasurer*—A. Slater Dunlop, M.A.

*Committee.*

Leyton P. Richards.
A. P. S. Tulloch, M.A.
Ebenezer M'Millan.
Tennant Sloan.
John A. Swan.

### GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

The object of this Society is to unite the abstaining students in the University, and to promote the cause of Total Abstinence. This work it seeks to accomplish among the students by means of lectures, sermons, etc., while, outside the University, it carries on a successful Temperance Mission Work.

*Office-Bearers for* 1902-3.
*Honorary President*—Professor Murdoch Cameron, M.D.
*Honorary Vice-Presidents.*

| | |
|---|---|
| Geo. A. Gibson, M.A. | James Carslaw, M.B. |
| A. Cameron Corbett, M.P. | A. Bonar Law, M.P. |

*President*—Norman B. Stewart.
*Vice-President*—Miss C. G. Thomlinson.
*Secretary*—R. D. Bell, M.A., The Union, University.
*Treasurer*—D. Auchinvole Dick, 7 Leyton Avenue, Langside.

*Committee.*

| | |
|---|---|
| *Arts*— | *Medicine*— |
| L. P. Richards. | D. D. F. M'Intyre. |
| E. R. Mitchell. | J. Henderson. |
| A. Brown. | J. Barbour. |
| *Science*— | *Divinity*— |
| G. Seaton. | A. S. Dunlop. |

From Queen Margaret College—Miss W. D. Morrison, Miss C. Ewen, Miss Barbour, and Miss Climie.

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### GLASGOW UNIVERSITY '93 CLUB.

The object of the Club is to promote intercourse among the members by means of at least one annual re-union which shall be held as far as possible on the Friday before Christmas. The Membership is limited to students of the University of the session 1892-93.

*Office-Bearers for* 1902.
*President*—A. H. Charteris, LL.B.
*Vice-Presidents*—James Aiken, M.A.; John Middleton, M.A.
*Secretary and Treasurer*—Robert W. M'Clure, B.L., 172 St. Vincent Street, Glasgow.

*Committee.*

| | |
|---|---|
| A. Wylie Blue. | W. M. R. Pringle, LL.B. |
| J. Roy Tannahill. | W. S. Paterson, M.A. |
| W. L. Levack. | S. H. M'Ewing, B.D. |

John A. Todd, B.L.

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### GLASGOW UNIVERSITY—NEW CENTURY LAW CLUB.

The object of the Club is to promote friendly intercourse among the Students of Law, by holding at least two social functions in the year.

All Students attending any of the Law Classes in the Glasgow University during the Sessions of 1900 to 1901, and 1901 to 1902, are eligible for Membership on payment of the annual subscription of One Shilling.

*Office-Bearers.*

*Honorary Presidents.*

Charles Scott Dickson, K.C., M.P., Solicitor-General for Scotland.
John Boyd, Advocate, Sheriff-Substitute for Lanarkshire.
Professor Alexander Moody Stuart, LL.D., Advocate, } *ex officiis.*
Professor James Moir, LL.D., }

*President*—Edward Rosslyn Mitchell, M.A.
*Vice-Presidents*— { G. D. Valentine, M.A. / G. J. Spreull, M.A.
*Secretary and Treasurer*—David Ross, Jr.,
2 Carlton Terrace, Kelvinside, North, Glasgow.

*Committee.*

Adam M. Cook.
Weir Grieve.
D. G. Hodge, M.A.
W. L. Henderson, M.A.
James Scrymgeour, M.A.
Thomson D. Vass.
Geo. Wilkie, M.A.
David Wilson.

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### GLASGOW UNIVERSITY OSSIANIC SOCIETY.

(Instituted 1828.)

The object of the Society is the discussion of subjects bearing on the language, literature, and customs of the Highlands. It meets in the Union on Friday evenings at seven during the winter session. The business of the Society is conducted in Gaelic at every alternate meeting. Ordinary membership is open to all students, both men and women, interested in the Highlands.

*Office-Bearers for Session* 1902-3.
*Honorary President*—The Hon. Stuart Erskine.
*President*—Hector Maclean, M.A.
*Vice-Presidents*—Neil MacInnes and Peter Macmillan.
*Secretary*—Angus J. MacVicar.
*Assistant-Secretary*—Dugald MacCallum.
*Treasurer*—Neil Johnson.
*Bard*—Hector Cameron.
*Representative to Union*—Walter Shaw.

*Members of Committee.*

Miss Mary B. Mackinnon.
Miss Marion Reid.
Charles Maclean.
Patrick Macdonald.
Alexander Murray.

With two members to be elected from first year's Arts in November.

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### THE CHURCH OF SCOTLAND UNDERGRADUATE SOCIETY.

The Society meets every alternate Monday at 8 p.m. in the Union for the discussion of literary, social, and religious topics, and for the promotion of social intercourse among its members.

All undergraduate students connected with the Church of Scotland are eligible for membership. An undergraduate shall mean a student in any Faculty who has not graduated in that Faculty.

The annual subscription is sixpence for Union members and one shilling for non-Union members.

*Office-Bearers for* 1902-3.
*Honorary President*—Professor Medley, M.A.
*President*—J. R. Spence, M.A.
*Vice-President*—A. S. Dunlop, M.A.
*Secretary*—J. A. Swan, The Union.
*Treasurer*—A. A. Bowman.

*Committee.*

Messrs. P. M‘Millan, M.A., J. Bain, C. S. Thomson, G. Young, M. Shannon, — M‘Donald, — White.

### GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' CELTIC SOCIETY.

This Society was instituted in 1864. All United Free Church students connected with or interested in the Highlands are eligible for ordinary membership. It meets in one of the United Free Church College Classrooms every Friday evening during the Session for the discussion of various subjects, chiefly literary and political. At two of the meetings the business is conducted in Gaelic.

*Office-Bearers for* 1902-3.
*Honorary President*—Professor Denney, D.D.
*President*—Alexander M‘Leish.
*Vice-President*—W. S. Sutherland, M.A.
*Secretary*—John D. M‘Callum, M.A., 289 Byars Road.
*Treasurer*—Alexander MacBean.

*Directors.*

*Divinity*—
John M‘Lellan.
*Arts*—
Alexander M‘Kinnon.
R. C. Young.

*Medicine*—
Campbell Ross.
J. H. Bisset.

### GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' SOCIETY.

*Honorary President*—Rev. James Black, D.D.
*President*—George Jeffrey.
*Vice-Presidents*—J. A. Graham and Robert D. Watt.
*Secretary*—Robert C. Young, The Union.
*Treasurer*—James W. More.
*Editor of Magazine*—John D. Simpson.

*Committee.*

W. R. Wiseman, J. M. Fleck, J. Menzies, G. Elliott, and one to be elected in October.

This Society meets every Saturday at 10.30 a.m. in the Union.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Free Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling and Sixpence. Students not connected with the above Church may become Associates.

### GLASGOW UNIVERSITY ATHLETIC CLUB.

*Office-Bearers for* 1902-3.
*Honorary President*—Professor Medley, M.A.
*President*—C. M. Wright.
*Vice-President*—W. W. Gillan, M.A.
*Secretary and Treasurer*—Stanley Gardner, The Union.

*Executive Committee.*

D. A. Wilson.
A. T. Ross.
W. W. Gillan, M.A.
— Kerr.
— Gillatt.
— Jeffrey.

and the Office-Bearers.

*Sections and Secretaries.*

*Rugby Football.*—D. A. Wilson, The Union.
*Fives.*—A. T. Ross, 29 Huntly Gardens.
*Golf.*—W. W. Gillan, M.A., The Union.
*Lawn Tennis.*—
*Running, etc.*—

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University.

Subscriptions: Athletic Club, Two Shillings and Sixpence; Rugby Football, Seven Shillings and Sixpence; Fives Club, Three Shillings; Golf Club, Three Shillings and Sixpence.

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### GLASGOW UNIVERSITY CYCLING CLUB.

*Honorary President*—Professor Medley.

*Honorary Vice-Presidents.*

H. S. Carslaw, M.A., D.Sc.
Alex. R. Ferguson, M.D., C.M.

*Captain*—John Lambie, M.B., Ch.B.

*Vice-Captain*—Archd. S. Wilson.

*Committee.*

George F. Buchan, M.B., Ch.B.
R. W. Simpson.

*Treasurer*—D. Auchinvole Dick.

*Secretary*—James R. Kerr, 15 India Street, Glasgow.

The annual subscription is half-a-crown.

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### GLASGOW UNIVERSITY RIFLE CLUB.

*Office-Bearers for* 1902-1903.

*President*—The Very Rev. Principal Story, D.D., LL.D.

*Vice-Presidents*—Professor Bower and Colonel James A. Reid.

*Team Captain*—J. M. Campbell (Major 3rd V.B.A. and S.H.), Auldfield Place, Pollokshaws.

*Vice-Captain*—Captain Reid.

*Secretary, Treasurer, and Students' Convener*—George N. Kirkwood, The Union.

*Committee*—T. E. Robinson (Major 1st L.R.V., retired), W. Nelson (Captain 1st L.R.V.), Major Robert Carswell (Captain 1st L.R.V.), Messrs. G. N. Kirkwood, T. G. Copestake, and S. C. Adam.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented, by a team consisting of five students and five ex-students, in the annual match for the Inter-University Trophy.

Glasgow University won the Trophy last year, being represented by the following team at Montrose :

*Ex-students*—Major Campbell, Messrs. Edington, A. Kirkwood, Purdie, and Heys.

*Students*—Messrs. Dick, Copestake, Richmond, Greir, and G. N. Kirkwood.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

## GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members and to promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

### *Office-Bearers for* 1901-1902.

*President*—

The Right Honourable Lord Kelvin, G.C.V.O., F.R.S., D.C.L., LL.D.

*Vice-Presidents*—

Lord Shand, D.C.L., LL.D.
Professor David W. Finlay, M.D., F.R.C.P.
Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.
Lord Kinnear.
Sir W. H. White, K.C.B.
The Right Honourable Lord Balfour of Burleigh.

*Council*—

Rev. David M'Ewan, D.D.
John Struthers, Esq.
Leonard Williams, M.D.
Peter Abercrombie, M.D.
Matthew A. Adam, B.Sc.
A. S. Murray, LL.D.
Dr. A. B. Seton Orr.
W. W. Don, M.D.
Professor J. W. Hales, M.A.
C. O. Hawthorne, M.D.
R. A. Ker, Esq.
Professor Bradley, M.A., LL.D.
Professor Dewar, F.R.S.
Norman M. MacLehose, M.B., C.M.

*Honorary Treasurer*—Guthrie Rankin, M.D., M.R.C.P., 4 Chesham Street, Belgrave Square, S.W.

*Honorary Secretaries*—

James M. Dodds, M.A., Dover House, Whitehall, S.W.
C. O. Hawthorne, M.D., M.R.C.P., 28 Weymouth Street, Portland Place, W.

## APPENDIX IV.

# *THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.*

This Trust was created by Mr. Andrew Carnegie of New York, and of Skibo in the County of Sutherland. By a trust-deed dated 7th June, 1901, Mr. Carnegie conveyed to Trustees $10,000,000 Bonds by the United States Steel Corporation, bearing interest at 5 per cent., and directed that one half of the net income should be applied towards the improvement and expansion of the Universities of Scotland in the Faculties of Science and Medicine, also for improving and extending the opportunities for scientific study and research, and for increasing the facilities for acquiring a knowledge of History, Economics, English Literature, and Modern Languages, and such other subjects cognate to a technical or commercial education as can be brought within the scope of the University curriculum, by the erection and maintenance of buildings, laboratories, class-rooms, museums or libraries, the providing of efficient apparatus, books, and equipment, the institution and endowment of Professorships and Lectureships, including post-graduate Lectureships and Scholarships, more especially Scholarships for the purpose of encouraging research, or in such other manner as the Executive Committee of the Trustees might from time to time decide.

It is directed that the other half of the income, or such part thereof as in each year may be found requisite, shall be devoted to the payment of the whole or part of the ordinary class fees exigible by the Universities from students of Scottish birth or extraction, and of 16 years of age or upwards, or scholars who have given two years' attendance after the age of 14 years at such schools and institutions in Scotland as are under inspection by the Scotch Education Department. They must have passed the examination qualifying for admission to the classes for which payment of fees is to be made by the Trust. Applications for the payment of fees must be made in the form prescribed by the Committee. The decision of the Committee in all questions of qualification shall be final, and the fees of all applicants declared to be eligible shall in each case be paid by the Committee as they become due to the factors or authorised officers of the Universities. The Committee shall also have power to withhold payment of fees from any student who is guilty of misconduct, or who fails within a reasonable time to pass the ordinary examinations of the University or any of them. Any surplus remaining in any year from the income applicable to this head of expenditure shall be applied to the first head of expenditure. Extra-mural Colleges, Schools, or classes in Scotland, attendance at which is recognised as qualifying or assisting to qualify for graduation shall, on application, be entitled to participate under the first head of expenditure to such an extent as the Committee may from time to time determine, and the students thereof shall be admitted to the privileges of the second half. In the case of schools or institutions in Scotland established to provide technical or commercial education, the Committee may recognise classes which, though outside the present range of the University curriculum, can be accepted as doing work of a University level, and may allow them and the students thereof to participate under both heads of expenditure to such an extent as the Committee may from time to time determine.

Any surplus income which may remain after satisfying the preceding requirements is to be at the disposal of the Committee, who may expend it (1) in establishing or assisting to establish courses of lectures in convenient centres by Professors or Lecturers of the Universities or Extra-mural Colleges or Schools, in Science and the subjects beforementioned; or (2) for the benefit of evening classes of students engaged in industrial or professional occupations during the day; or (3) in any other way the Trustees may think proper towards furthering the usefulness of the Universities in connection with the purposes expressed in the trust-deed and constitution. The benefits of the Trust are available to students of both sexes.

The Trustees are partly nominated, and there are also *ex officio* and elected members. The following are the nominated members:

The Right Hon. the Earl of Elgin and Kincardine, K.G., P.C., G.C.S.I., G.C.I.E., D.C.L., LL.D., *Chairman.*
The Right Hon. the Earl of Rosebery, K.G., P.C., K.T., D.C.L., LL.D., F.R.S.
The Right Hon. Lord Balfour of Burleigh, P.C., K.T., LL.D.
The Right Hon. Lord Kelvin, P.C., G.C.V.O., D.C.L., LL.D., F.R.S.
The Right Hon. Lord Kinnear of Spurness, one of the Senators of the College of Justice.
The Right Hon. Lord Reay of Reay, G.C.I.E., G.C.S.I., D.C.L., LL.D.
The Right Hon. Arthur James Balfour, M.P., D.C.L., LL.D.
The Right Hon. Sir Henry Campbell-Bannerman, M.P., G.C.B., LL.D.
The Right Hon. James Bryce, M.P., D.C.L., LL.D.
The Right Hon. John Morley, M.P., D.C.L., LL.D., F.R.S.
Sir Robert Pullar.
Sir Henry Enfield Roscoe, D.C.L., LL.D., F.R.S.
Richard Burdon Haldane, P.C., K.C., M.P., LL.D.
Thomas Shaw, K.C., M.P.

The following are the *ex officio* members:

His Majesty's Secretary for Scotland.
The Lord Provost of Edinburgh.
The Lord Provost of Glasgow.
The Provost of Dunfermline.

The elected members are four in number, one chosen by the University Court of each of the four Scottish Universities. They hold office for periods of four years and are at present Principal Donaldson (St. Andrews), Professor Stewart (Glasgow), Professor Hay (Aberdeen), and Professor Sir William Turner (Edinburgh).

The administration of the Trust is conducted by an Executive Committee of nine members, one of whom is the Chairman of the Trust.

Two of the four Trustees elected by the Universities are members of the Executive Committee for the first two years, the other two for the next two years, and so on.

The first Executive Committee was constituted as follows:

The Earl of Elgin and Kincardine, K.G., P.C., *Chairman.*
Lord Balfour of Burleigh, P.C., K.T.
Lord Kinnear of Spurness, K.C., LL.D.
Sir Henry Enfield Roscoe, D.C.L., LL.D.
Thomas Shaw, K.C., M.P.
The Lord Provost of Edinburgh, or an assessor nominated by him, after consultation and with the consent of the Trustees.
The Lord Provost of Glasgow, or an assessor nominated by him after consultation and with the consent of the Trustees.
Professor Sir William Turner, K.C.B., D.C.L., D.Sc., LL.D., Edinburgh.
Professor Hay, M.D., Aberdeen.

The offices of the Trust are at 2 St. Andrew Square, Edinburgh. *Secretary*, Dr. W. S. M'Cormick; *Treasurer*, Mr. John Ross. All applications should be addressed to the Secretary of the Trust.

The following excerpt from a letter written by Dr. Carnegie to the Earl of Elgin, Chairman of the Trust, will explain the intention of the founder:—

"London, 7*th June*, 1901.

"My Dear Lord Elgin,

. . . . . . . . . .

"As your Lordship is aware, my desire throughout has been that no capable student should be debarred from attending the University on account of the payment of fees. I believe that the conditions of application ensure a sufficient standard of merit, and I hope that the honest pride for which my countrymen are distinguished will prevent claims from those who do not require assistance, and that the invidious task of enquiring into the circumstances of each candidate need not be imposed upon the Trustees. But, to further mark my personal belief and hope in this matter, I have made provision in the Trust Deed that the Trustees may receive funds from others to be administered along with the funds placed by me. I consider this a valuable clause, believing, from my own experience with young men, that some students in after life may value the privilege of repaying advances received from the Trustees, although these are free gifts. I hope the Trustees will gladly welcome such repayments, if offered, as this will enable such students as prefer to do so to consider the payments made on their account merely as advances which they resolve to repay if ever in a position to do so, and that this will protect and foster the spirit of manly independence so dear to the Scot.

Very truly yours,

ANDREW CARNEGIE."

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